

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 8, 2001, 10:37:20 ; Search time 244.67 Seconds

(without alignments)
15831.631 Million cell updates/sec

Title: US-09-227-881-3

Perfect score: 6169
Sequence: 1 aactctgtcagtttaccctc.....cttgccctccatcagtcag 6169

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 730101 seqs, 313950809 residues

Total number of hits satisfying chosen parameters: 1460202

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

N.GeneSeq_0601:*

- 1: /SIDSI/gcgdata/geneSeq/geneSeq/NA1980.DAT:*
- 2: /SIDSI/gcgdata/geneSeq/geneSeq/NA1981.DAT:*
- 3: /SIDSI/gcgdata/geneSeq/geneSeq/NA1982.DAT:*
- 4: /SIDSI/gcgdata/geneSeq/geneSeq/NA1983.DAT:*
- 5: /SIDSI/gcgdata/geneSeq/geneSeq/NA1984.DAT:*
- 6: /SIDSI/gcgdata/geneSeq/geneSeq/NA1985.DAT:*
- 7: /SIDSI/gcgdata/geneSeq/geneSeq/NA1986.DAT:*
- 8: /SIDSI/gcgdata/geneSeq/geneSeq/NA1987.DAT:*
- 9: /SIDSI/gcgdata/geneSeq/geneSeq/NA1988.DAT:*
- 10: /SIDSI/gcgdata/geneSeq/geneSeq/NA1989.DAT:*
- 11: /SIDSI/gcgdata/geneSeq/geneSeq/NA1990.DAT:*
- 12: /SIDSI/gcgdata/geneSeq/geneSeq/NA1991.DAT:*
- 13: /SIDSI/gcgdata/geneSeq/geneSeq/NA1992.DAT:*
- 14: /SIDSI/gcgdata/geneSeq/geneSeq/NA1993.DAT:*
- 15: /SIDSI/gcgdata/geneSeq/geneSeq/NA1994.DAT:*
- 16: /SIDSI/gcgdata/geneSeq/geneSeq/NA1995.DAT:*
- 17: /SIDSI/gcgdata/geneSeq/geneSeq/NA1996.DAT:*
- 18: /SIDSI/gcgdata/geneSeq/geneSeq/NA1997.DAT:*
- 19: /SIDSI/gcgdata/geneSeq/geneSeq/NA1998.DAT:*
- 20: /SIDSI/gcgdata/geneSeq/geneSeq/NA1999.DAT:*
- 21: /SIDSI/gcgdata/geneSeq/geneSeq/NA2000.DAT:*
- 22: /SIDSI/gcgdata/geneSeq/geneSeq/NA2001.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6169	100.0	6169	19 AAV51368	Human TIGR upstream
2	6169	100.0	6169	21 AAV57486	A TIGR (trabecular
3	5275.4	85.5	5300	21 AAV57484	A TIGR (trabecular
4	5274.4	85.5	5299	19 AAV51361	Human TIGR promote
5	5273.8	85.5	5300	19 AAV51362	Human TIGR promote
6	5273.8	85.5	5300	19 AAV51363	Human TIGR promote
7	5273.8	85.5	5300	19 AAV51365	Human TIGR promote
8	5273.8	85.5	5300	19 AAV51366	Human TIGR promote
9	5273.8	85.5	5300	19 AAV51367	Human TIGR promote
10	5269.4	85.4	5271	21 AAV57511	A TIGR (trabecular
11	5261.4	85.3	5304	19 AAV51364	Human TIGR promote

12	5253.4	85.2	5304	21 AAV57485	A TIGR (trabecular
13	2677.4	43.4	2800	21 AA237968	Human GLCIA gene e
14	975.2	15.8	3493	19 AAV37618	Human glaucoma ass
15	640.4	10.4	1548	19 AAV51391	Human TIGR CDNA.
16	640.4	10.4	1548	21 AAV57509	CDNA encoding trab
17	640.4	10.4	1890	20 AAV57606	Human TIGR/MTOC ge
18	640.4	10.4	1999	20 AAV81910	Human trabecular m
19	640.4	10.4	1999	20 AAV08904	TIGR protein codin
20	640.4	10.4	1999	22 AAC87528	Human TIGR CDNA, S
21	640.4	10.4	2000	19 AAV33484	Trabecular meshwor
22	604.4	9.8	1512	20 AAV08905	TIGR protein codin
23	604.4	9.8	1512	22 AAC87529	Human TIGR CDNA op
24	604.4	9.8	1515	21 AA237974	Human GLCIA polype
25	603.4	9.8	1512	19 AAV37619	Human glaucoma ass
26	585.8	9.5	2800	21 AA237971	Mouse GLCIA gene e
27	556.6	9.0	1969	17 AAT80152	Trabecular meshwor
28	556.6	9.0	1969	19 AAV28331	Nucleotide sequenc
29	519.6	8.4	1491	17 AAT30153	Trabecular meshwor
30	382.8	6.2	1473	21 AA237975	Mouse GLCIA polype
31	283	4.6	283	21 AAV57514	Trabecular meshwor
32	227	3.7	227	21 AAV57515	Oligonucleotide D1
33	182.8	3.0	936	22 AAF58254	Oligonucleotide D1
34	182.8	3.0	936	22 AAF58254	Oligonucleotide D1
35	182.8	3.0	936	22 AAF58257	Oligonucleotide D2
36	182.8	3.0	936	22 AAF58259	Oligonucleotide D2
37	182.8	3.0	936	22 AAF58262	Oligonucleotide D1
38	182.8	3.0	936	22 AAF58255	Oligonucleotide D1
39	182	3.0	936	22 AAF58252	Oligonucleotide D1
40	182	3.0	936	22 AAF58254	Oligonucleotide D1
41	182	3.0	936	22 AAF58257	Oligonucleotide D1
42	182	3.0	936	22 AAF58259	Oligonucleotide D2
43	182	3.0	936	22 AAF58262	Oligonucleotide D2
44	182	3.0	938	22 AAF58255	Oligonucleotide D1
45	176.4	2.9	283	15 AA063862	AP2 sequence obtd.

ALIGNMENTS

RESULT 1	
AAV51368	standard; DNA: 6169 BP.
ID AAV51368	
XX	
AC AAV51368	
XX	
DT 27-OCT-1998	(first entry)
XX	
XX	Human TIGR upstream region and exon 1 DNA.
DE	
XX	
XX	TIGR: trabecular meshwork induced glucocorticoid response protein; human;
KW	diagnosis; glaucoma; polymorphism; steroid sensitivity; ss.
KM	
XX	
OS	Homo sapiens.
XX	
XX	
FH Key	Location/Qualifiers
FT exon	5301..5940
FT	/*tag= a
FT	/number= 1
FT CDS	5337..6169
FT	/*tag= b
FT	/product= "TIGR"
FT	/note= "partial coding sequence"
FT	5941..6169
FT	/*tag= c
FT	/number= 1
FT Intron	/*note= "partial Intron sequence"
XX	
XX	
XX	MO9832850-A1.
XX	
XX	30-JUL-1998.
XX	
XX	09-JAN-1998; 98MO-US00468.
XX	


```
|||||
Db 1741 cacacabctcttctgtaagccctcacacatcgttactgaataagatatacataaactag 1800
Qy 1801 ttccatttggagccatctgtgtgtgtatagggagaaagccatacccaagagaccct 1860
Db 1801 ttccatttggagccatctgtgtgtatagggagaaagccatacccaagagaccct 1860
Qy 1861 tgaagcccccggagagagtttccctccacagctggggagagccctgaagcccccgggtcc 1920
Db 1861 tgaagcccccggagagagtttccctccacagctggggagagcccccgcaagcccggttcc 1920
Qy 1921 tgggtgtccctgaagcaacctgcccagccgtgccaactgtgttctgtatcactctcag 1960
Db 1921 tgggtgtccctgaagcaacctgcccagccgtgccaactgtgttctgtatcactctcag 1960
Qy 1981 gaccgtgtgttcttctatcttctgtgtgactcgttcatcaccagagcttcatgacaatc 2040
Db 1981 gaccgtgtgttcttctatcttctgtgtgactcgttcatcaccagagcttcatgacaatc 2040
Qy 2041 tatctgaatactatctatctgcacagacacagagacaataatgtgagcaagcaagctcagtc 2100
Db 2041 tatctgaatactatctatctgcacagacacagagacaataatgtgagcaagcaagctcagtc 2100
Qy 2101 cctacacctgtggaggtgtgacagttctcattgtgaagacgtgtgacagagaataataagcca 2160
Db 2101 cctacacctgtggaggtgtgacagttctcattgtgaagacgtgtgacagagaataataagcca 2160
Qy 2161 gccaaacttaaacccagatgtctgtgaagaagaagaataaacaacacatctgtagaatgtgtgc 2220
Db 2161 gccaaacttaaacccagatgtctgtgaagaagaagaataaacaacacatctgtagaatgtgtgc 2220
Qy 2221 agcaatcccttaaaccaagccacccctccacagcccccgtgcgccacacgtgtcccgagag 2280
Db 2221 agcaatcccttaaaccaagccacccctccacagcccccgtgcgccacacgtgtcccgagag 2280
Qy 2281 ccccccagcccgagttcttccaaagctctcctctccatcagatcaagccgtcagctgtgcct 2340
Db 2281 ccccccagcccgagttcttccaaagctctcctctccatcagatcaagccgtcagctgtgcct 2340
Qy 2341 gctcgtcttccgtgtgaatcgtccctgtgtgacatctgagctgtgaagactctgtgtccaggt 2400
Db 2341 gctcgtcttccgtgtgaatcgtccctgtgtgacatctgagctgtgaagactctgtgtccaggt 2400
Qy 2401 cccgaaagagaaatgtgaagagagaaactagtctaaagagaaatctgtgaagagagagtggttcc 2460
Db 2401 cccgaaagagaaatgtgaagagagaaactagtctaaagagaaatctgtgaagagagagtggttcc 2460
Qy 2461 ctcaagagagaaaggggcttccacagttccagagagaaatcccaagagaggtgtggactcagagag 2520
Db 2461 ctcaagagagaaaggggcttccacagttccagagagaaatcccaagagaggtgtggactcagagag 2520
Qy 2521 tggggagcgtctggggtctgagccgggtgtctgaagaagcagaaaggtgaaaaaagggcaaggtgaa 2580
Db 2521 tggggagcgtctggggtctgagccgggtgtctgaagaagcagaaaggtgaaaaaagggcaaggtgaa 2580
Qy 2581 gctggcccaagatgttctcagtggttcttcaaggggtctgggaagtttccgtgtctccgtgtgagc 2640
Db 2581 gctggcccaagatgttctcagtggttcttcaaggggtctgggaagtttccgtgtctccgtgtgagc 2640
Qy 2641 ctcttctatcttctctgtctgtgagggagaaagctcatctcatgaagagagatgagcttcc 2700
Db 2641 ctcttctatcttctctgtctgtgagggagaaagctcatctcatgaagagagatgagcttcc 2700
Qy 2701 ataaagctcagctgttcaaaatccaagggtgtgtcabyggttcttcccttccagaaagccttcat 2760
Db 2701 ataaagctcagctgttcaaaatccaagggtgtgtcabyggttcttcccttccagaaagccttcat 2760
Qy 2761 ttaatgggaatataagagagagctcatcttccctagagccgttaataatccagaaagagtgac 2820
Db 2761 ttaatgggaatataagagagagctcatcttccctagagagccgttaataatccagaaagagtgac 2820
Qy 2821 tgaagcttcttcttcaagctctctgtggcaactacagccctgtgtgagacttggtta 2880
Db 2821 tgaagcttcttcttcaagctctctgtggcaactacagccctgtgtgagacttggtta 2880

|||||
Db 2881 tgaagcttcttcttcaagctctctgtggcaactacagccctgtgtgagacttggtta 2880
Qy 2881 tgaagagcgtgtcgaaaaccttggaaatcaggaagactcgtgttcttctgtgtccgcatc 2940
Db 2881 tgaagagcgtgtcgaaaaccttggaaatcaggaagactcgtgttcttctgtgtccgcatc 2940
Qy 2941 ggtgtgtgtgtgagacgtgtggcaaggtgtctctccttccctgtgggcaatgttctcgt 3000
Db 2941 ggtgtgtgtgtgagacgtgtggcaaggtgtgtctctccttccctgtgggcaatgttctcgt 3000
Qy 3001 ataaagacccttgcagctctcgtgttctgtgtgaacatctccctgtatctctgtgtgaggg 3060
Db 3001 ataaagacccttgcagctctcgtgttctgtgtgaacatctccctgtatctctgtgtgaggg 3060
Qy 3061 ggaatgtgagaggggagagggagagagctgtgagagagctgtgagagagggaggggg 3120
Db 3061 ggaatgtgagaggggagagggagagagctgtgagagagctgtgagagagggaggggg 3120
Qy 3121 ggaagagaaagcagggcagaaagctgtgtgtccatcagctccctcaatgtgacgtcagag 3180
Db 3121 ggaagagaaagcagggcagaaagctgtgtgtccatcagctccctcaatgtgacgtcagagatc 3180
Qy 3181 caagagccgaagagccacaatgtcttcaggaagctcaatgtgaaccccaacagccaatttcc 3240
Db 3181 caagagccgaagagccacaatgtcttcaggaagctcaatgtgaaccccaacagccaatttcc 3240
Qy 3241 tccctaaagcataagcaaatgtgcatttgcacataaccaaaagaatgtcagagaactacgtgt 3300
Db 3241 tccctaaagcataagcaaatgtgcatttgcacataaccaaaagaatgtcagagaactacgtgt 3300
Qy 3301 ggtatgcttctgtcgtgtgcatcacaacacgtgggcccagagcaaggtgaaaaatgcacaaggt 3360
Db 3301 ggtatgcttctgtcgtgtgcatcacaacacgtgggcccagagcaaggtgaaaaatgcacaaggt 3360
Qy 3361 ttaaacttctaaccttgaacagcaccacagccacgtcagacgtgtacgtgtgacagcagc 3420
Db 3361 ttaaacttctaaccttgaacagcaccacagccacgtcagacgtgtacgtgtgacagcagc 3420
Qy 3421 agtgaacctgtcagcgtcagggagagagaaagagagagtagtgtatgtgacagaagaag 3480
Db 3421 agtgaacctgtcagcgtcagggagagagagaaagagagagtagtgtatgtgacagaagaag 3480
Qy 3481 acaagattcatcacaagggcaggtgtggaatttgaaccagaagagatataagttccacgtgtacc 3540
Db 3481 acaagattcatcacaagggcaggtgtggaatttgaaccagaagagatataagttccacgtgtacc 3540
Qy 3541 gttctagagagcagggctatattgtgggggaaaaaaatcgaattcaagggaggtcgggaga 3600
Db 3541 gttctagagagcagggctatattgtgggggaaaaaaatcgaattcaagggaggtcgggaga 3600
Qy 3601 cctgtattcttaatactatatttctcctttaaagctgtgaattctgtgacagtcacaaag 3660
Db 3601 cctgtattcttaatactatatttctcctttaaagctgtgaattctgtgacagtcacaaag 3660
Qy 3661 gtagtgaactgagagctgtgaagaattactagtcttcccttatagaagactcttctcgt 3720
Db 3661 gtagtgaactgagagctgtgaagaattactagtcttcccttatagaagactcttctcgt 3720
Qy 3721 ggaattagcaagcaaaagggcaatccgttcttcttaaagaaagaaacatcttccaaag 3780
Db 3721 ggaattagcaagcaaaagggcaatccgttcttcttaaagaaagaaacatcttccaaag 3780
Qy 3781 taaagccaacaagattcaagcctaggtctgtgactatagatgtgttcttggaaaaat 3840
Db 3781 taaagccaacaagattcaagcctaggtctgtgactatagatgtgttcttggaaaaat 3840
Qy 3841 catttcagcgatgttctatcttctgtatccagaaaatgtgagactagaccccttggcagctg 3900
Db 3841 catttcagcgatgttctatcttctgtatccagaaaatgtgagactagaccccttggcagctg 3900
Qy 3901 taaacaacaacccagctgtgaatgttccaaagtltcaagcttcaactgtcagaaaccaatcaaaa 3960
Db 3901 taaacaacaacccagctgtgaatgttccaaagtltcaagcttcaactgtcagaaaccaatcaaaa 3960
```

OY 3961 agaatgaatctttagagcaaaactgtttctccacactcggaggtgagctgcagggc 4020
|||||
Db 3961 agaatgaatcccttaagcaaaactgtctctccacactcggaggtgagctgcagggc 4020
OY 4021 agcttggaaaatattacttcaacaagtactgaacactgtctgtgtgattcaacaactaagtc 4080
|||||
Db 4021 agcttggaaaatattacttcaacaagtactgaacactgtctgtgtgattcaacaactaagtc 4080
OY 4081 tgcctcaaaaggcaatcattcttcaagtgcgttaaaagttaactcttcagacttttgtat 4140
|||||
Db 4081 tgcctcaaaaggcaatcattcttcaagtgcgttaaaagttaactcttcagacttttgtat 4140
OY 4141 tttctggcctatgtccatttgccttttcttctctcttgcgttatactatgtaaagcag 4200
|||||
Db 4141 tttctggcctatgtccatttgccttttcttctctcttgcgttatactatgtaaagcag 4200
OY 4201 ggaatcaactcaacagctccagaaaagcctgtgaatttgaaatggaaaataatactttc 4260
|||||
Db 4201 ggaatcaactcaacagctccagaaaagcctgtgaatttgaaatggaaaataatactttc 4260
OY 4261 tgccttcaacacactctcaactaaatcaacatttcaatccatcgcgatatagacataaa 4320
|||||
Db 4261 tgccttcaacacactctcaactaaatcaacatttcaatccatcgcgatatagacataaa 4320
OY 4321 ctcaaaagtggtaataacagtaactgtgattctgtcaattaccaatagaatcacagacat 4380
|||||
Db 4321 ctcaaaagtggtaataacagtaactgtgattctgtcaattaccaatagaatcacagacat 4380
OY 4381 ctcaactatactcaactgtgttcgagatacgttgtgaagtgaataatctatactcaaaacta 4440
|||||
Db 4381 ctcaactatactcaactgtgttcgagatacgttgtgaagtgaataatctatactcaaaacta 4440
OY 4441 ccttcgaaatagaactcctgcgtgcgatactgtttttaaactatataaaaacatgtttaa 4500
|||||
Db 4441 ccttcgaaatagaactcctgcgtgcgatactgtttttaaactatataaaaacatgtttaa 4500
OY 4501 attctgaatatcttgataaactatacttcatatcatattgttctccttgcgttaactatctt 4560
|||||
Db 4501 attctgaatatcttgataaactatacttcatatcatattgttctccttgcgttaactatctt 4560
OY 4561 atatacttgaaaaacactctctcgaagaaggtccccaatttcccaatgaaggttcttcg 4620
|||||
Db 4561 atatacttgaaaaacactctctcgaagaaggtccccaatttcccaatgaaggttcttcg 4620
OY 4621 catgcacacacacagatagaactgaatttagaggtcaacatgcgatactgtgcctgaag 4680
|||||
Db 4621 catgcacacacacagatagaactgaatttagaggtcaacatgcgatactgtgcctgaag 4680
OY 4681 tgcagaagactgaataattagaagttctcccaagaatacacagttgctttaagctagggtg 4740
|||||
Db 4681 tgcagaagactgaataattagaagttctcccaagaatacacagttgctttaagctagggtg 4740
OY 4741 aggggggaaaactcgcgcctctcaagaagtgcctcctccggagacctggaggtgcgtgc 4800
|||||
Db 4741 aggggggaaaactcgcgcctctcaagaagtgcctcctccggagacctggaggtgcgtgc 4800
OY 4801 ccttgcgtctcgcgcgtgttatttctctcgttccctgcgtcaagcttctaaaggactgtct 4860
|||||
Db 4801 ccttgcgtctcgcgcgtgttatttctctcgttccctgcgtcaagcttctaaaggactgtct 4860
OY 4861 ggaatcccaagttccctgaagcttagtgccttcgacagagtcgaagttctcaatgagttcgag 4920
|||||
Db 4861 ggaatcccaagttccctgaagcttagtgccttcgacagagtcgaagttctcaatgagttcgag 4920
OY 4921 tgaatcgaataataaaactgaataataatccctgttcgaataacagcaacagtaagctccg 4980
|||||
Db 4921 tgaatcgaataataaaactgaataataatccctgttcgaataacagcaacagtaagctccg 4980
OY 4981 tgcgaagtgcgtgcagctgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgt 5040
|||||
Db 4981 tgcgaagtgcgtgcagctgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgt 5040

OY 5041 taggaactattattcgggtcagtcgataaattgggaatgtctctttaaanaaagaactc 5100
|||||
Db 5041 taggaactattattcgggtcagtcgataaattgggaatgtctctttaaanaaagaactc 5100
OY 5101 caaacagactcttcggaaagtatttcttaagaactcttcggcaagcttgaaggaacccc 5160
|||||
Db 5101 caaacagactcttcggaaagtatttcttaagaactcttcggcaagcttgaaggaacccc 5160
OY 5161 cctgtgcagagcccccagccctcagctgcgtccactctctctcccccataagggctg 5220
|||||
Db 5161 cctgtgcagagcccccagccctcagctgcgtccactctctctcccccataagggctg 5220
OY 5221 gctcccaatatataaactccttcggagctcgggataagacagcaagccaccatc 5280
|||||
Db 5221 gctcccaatatataaactccttcggagctcgggataagacagcaagccaccatc 5280
OY 5281 caggcaactctcagcaagaagacttccagaggaagcctcaacaaagccttcgaaatga 5340
|||||
Db 5281 caggcaactctcagcaagaagacttccagaggaagcctcaacaaagccttcgaaatga 5340
OY 5341 ggtctctcgttcgacagcttgcctgcagacttcggccttgagatgcagactgttcagctgc 5400
|||||
Db 5341 ggtctctcgttcgacagcttgcctgcagacttcggccttgagatgcagactgttcagctgc 5400
OY 5401 tcttcgacctgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgt 5460
|||||
Db 5401 tcttcgacctgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgt 5460
OY 5461 accaaggtgcgcgagtcagataacttcaacttcaacttgcagctcccaatgaatccagctgc 5520
|||||
Db 5461 accaaggtgcgcgagtcagataacttcaacttcaacttgcagctcccaatgaatccagctgc 5520
OY 5521 caagagcaagcccgagcacttccagatacactcaacagagagagcaagcaacccaaac 5580
|||||
Db 5521 caagagcaagcccgagcacttccagatacactcaacagagagagcaagcaacccaaac 5580
OY 5581 gcttagaacttgagagcccaacaaagctcgaactcagctccttcggagagcctctccaaat 5640
|||||
Db 5581 gcttagaacttgagagcccaacaaagctcgaactcagctccttcggagagcctctccaaat 5640
OY 5641 tgaacttgaagccaggtcgtccagagccccaagagagcccaaggggtcgcagagggagctg 5700
|||||
Db 5641 tgaacttgaagccaggtcgtccagagccccaagagagcccaaggggtcgcagagggagctg 5700
OY 5701 gcaacccctgcggcgagagccgagacagctcggaaaccccaacaaaggttggaaactgcct 5760
|||||
Db 5701 gcaacccctgcggcgagagccgagacagctcggaaaccccaacaaaggttggaaactgcct 5760
OY 5761 acagcaactcctcagagcaagtcagttctcggagagagagaaagcgactaagcgaaag 5820
|||||
Db 5761 acagcaactcctcagagcaagtcagttctcggagagagagaaagcgactaagcgaaag 5820
OY 5821 aaaaatgaagaatcttcgcaagaaggttggaaagcagcagagagaggttagcaaggtcgaaga 5880
|||||
Db 5821 aaaaatgaagaatcttcgcaagaaggttggaaagcagcagagagaggttagcaaggtcgaaga 5880
OY 5881 gggccaggttcccccagagacccagacagctcggagctgtgcacacagagctccagaagaag 5940
|||||
Db 5881 gggccaggttcccccagagacccagacagctcggagctgtgcacacagagctccagaagaag 5940
OY 5941 gtaagaatgcagagatgcggggagactcgtagttcagcaggtgtatagctgtcgtgcgt 6000
|||||
Db 5941 gtaagaatgcagagatgcggggagactcgtagttcagcaggtgtatagctgtcgtgcgt 6000
OY 6001 ctacagggcgtccagagccctccctgccttctccctcagagactcgcagcttagcaaaagac 6060
|||||
Db 6001 ctacagggcgtccagagccctccctgccttctccctcagagactcgcagcttagcaaaagac 6060
OY 6061 agatgaataaagaaagcaacagatcaactcaagttatctactagttatctactcctcag 6120
|||||
Db 6061 agatgaataaagaaagcaacagatcaactcaagttatctactagttatctactcctcag 6120
OY 6121 agcttcaattagatagttggttcagagatctctgtgcctccatcagtcag 6169

Db 6121 agctcattagattagttggtctcagagttctctgtgcccccatgacag 6169

```
|||||
RESULT 2
ID AAA57486
XX AAA57486 standard: DNA: 6169 BP.
XX
XX AAA57486:
XX
XX 20-OCT-2000 (first entry)
XX
XX A TIGR (trabecular meshwork inducible glucocorticoid receptor) promoter.
DE
XX TIGR: trabecular meshwork inducible glucocorticoid receptor; promoter;
KM glaucoma; steroid sensitivity; progressive ocular hypertension;
KW vision loss; ss.
XX
XX Homo sapiens.
XX
XX Key
XX Location/Qualifiers
XX replace (4337, G)
XX /*tag= a
XX /note= "TIGRmt1 mutant"
XX replace (4950, T)
XX /*tag= b
XX /note= "TIGRmt2 mutant"
XX 4998
XX /*tag= c
XX /note= "GNGR added to produce TIGRmt3 mutant"
XX replace (4256, G)
XX /*tag= d
XX /note= "TIGRmt4 mutant"
XX replace (5113, C)
XX /*tag= e
XX /note= "TIGRmt11 mutant"
XX
XX MO200042220-A1.
XX
XX 20-JUL-2000.
XX
XX 11-JAN-2000: 2000MO-US00559.
XX
XX 11-JAN-1999: 99US-0227881.
XX 07-MAY-1999: 99US-0306828.
XX
XX (REGC ) UNIV CALIFORNIA.
XX
XX Nguyen TD, Polansky JR, Chen P, Chen H;
XX WPI: 2000-491060/43.
XX
XX
XX Diagnosis, prognosis and treatment of glaucoma, based on detecting
XX specific polymorphisms in the promoter of the trabecular meshwork
XX inducible glucocorticoid receptor gene -
XX
XX Claim 37: Page 105-107; 122pp: English.
XX
XX The present sequence represents a TIGR (trabecular meshwork inducible
XX glucocorticoid receptor) promoter. The specification describes a method
XX for the diagnosis, prognosis and treatment of glaucoma, based on
XX detecting specific polymorphisms in the promoter of the TIGR gene.
XX The method is used for diagnosis and prognosis of glaucoma (of all
XX types), steroid sensitivity and progressive ocular hypertension that
XX leads to loss of vision. Glaucoma can be treated by administering an
XX agent that binds to cis-acting elements within the TIGR promoter. The
XX TIGR promoter (or other regulatory regions) can be used to express
XX homologous or heterologous genes, particularly for tissue-specific
XX expression of therapeutic transgenes for treating glaucoma, also to
XX generate transgenic animals and in screening for compounds (specific
XX modulators) with diagnostic or therapeutic potential. Fragments of the
XX TIGR sequence can be used as amplification primers or probes, e.g. for
XX isolating related sequences in non-human animals.
```

XX SQ Sequence 6169 BP: 1702 A: 1389 C: 1491 G: 1587 T: 0 other:

Query Match 100.0%; Score 6169; DB 21: Length 6169;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 6169; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 atcttcttcaagtttaccctcagggtcttattgaaatgaaatgataccaatgtgaaag 60
DB 1 atcttcttcaagtttaccctcagggtcttattgaaatgaaatgataccaatgtgaaag 60
QY 61 tccataaactgtatagctcccatcctcgatgatagtctcttgagcagagatgataagatca 120
DB 61 tccataaactgtatagctcccatcctcgatgatagtctcttgagcagagatgataagatca 120
QY 121 ggaagaaggagatccacagtttagcacaagtgctccagagctgtctgtctctattttagtga 180
DB 121 ggaagaaggagatccacagtttagcacaagtgctccagagctgtctgtctctattttagtga 180
QY 181 cagatgttgcctcctcgacagaagctatctctcagaaacatcacatccaatgtgataac 240
DB 181 cagatgttgcctcctcgacagaagctatctctcagaaacatcacatccaatgtgataac 240
QY 241 catcaaacagagagcttaagaaacagaaatgaaatgagagcttgcccaaggaaatgacag 300
DB 241 catcaaacagagagcttaagaaacagaaatgaaatgagagcttgcccaaggaaatgacag 300
QY 301 gagaagcaaatatgatgaaataaataacttctcccttcttctttaaatttcggaaaaaatg 360
DB 301 gagaagcaaatatgatgaaataaataacttctcccttcttctttaaatttcggaaaaaatg 360
QY 361 atgagagcccaaatcatgaaatgaaagaaacagctcagaaaaaagatgcttccaattgg 420
DB 361 atgagagcccaaatcatgaaatgaaagaaacagctcagaaaaaagatgcttccaattgg 420
QY 421 taattaaagtatttctccttgaggagagacccctccttgagctgatagtgagaaatgggaa 480
DB 421 taattaaagtatttctccttgaggagagacccctccttgagctgatagtgagaaatgggaa 480
QY 481 aaacgtcaaaaagcattgactgatacagatcccaaaagtgtattattttaaaaccagat 540
DB 481 aaacgtcaaaaagcattgactgatacagatcccaaaagtgtattattttaaaaccagat 540
QY 541 ggcatacctctgggagagcagatcagaaagtgcatgtttagcaagaagacataacaataac 600
DB 541 ggcatacctctgggagagcagatcagaaagtgcatgtttagcaagaagacataacaataac 600
QY 601 agcaaaaatcaaaatccgcaaatgcaagagaaatgaggagctgggaaagcttccataac 660
DB 601 agcaaaaatcaaaatccgcaaatgcaagagaaatgaggagctgggaaagcttccataac 660
QY 661 agtgtatagagagttgacacatgcttcgcaaacaccccccgtctatacagggaaacaaaa 720
DB 661 agtgtatagagagttgacacatgcttcgcaaacaccccccgtctatacagggaaacaaaa 720
QY 721 attgactgggctaaagccttgagcttcaagggaaatgaaatactgagagaaacaaaaa 780
DB 721 attgactgggctaaagccttgagcttcaagggaaatgaaatactgagagaaacaaaaa 780
QY 781 gactgtgttaaaagcaaccagaaacatgtgagccttcaaaagcagctgcccctcagca 840
DB 781 gactgtgttaaaagcaaccagaaacatgtgagccttcaaaagcagctgcccctcagca 840
QY 841 gggagccctgagagcatttgctctttagaaggccagtttcttaagaaatcttaagaanaac 900
DB 841 gggagccctgagagcatttgctctttagaaggccagtttcttaagaaatcttaagaanaac 900
QY 901 ttgaaagatcatgaaatcttaacatcttaagataaaaaaataatgcatgataacaaag 960
DB 901 ttgaaagatcatgaaatcttaacatcttaagataaaaaaataatgcatgataacaaag 960
QY 961 tttagacatgggtcccaatttataaagttaggacatacaagataaagctgcccagctcc 1020
```

Db	961	ttcttagagatcggtccccaattcttatataaggtccaaggatataaaggatataacgtgtgccagctcc	1020
Qy	1021	ggataggttcagaaatactatagaaatacgtgtgccatccctaaacttttcagaaatgac	1080
Db	1021	ggataggttcagaaatactatagaaatacgtgtgccatccctaaacttttcagaaatgac	1080
Qy	1081	tgtcatagccctccacaacagagcccggtgtgtctgacatctacaacacatactacaaccaa	1140
Db	1081	tgtcatagccctccacaacagagcccggtgtgtctgacatctacaacacatactacaaccaa	1140
Qy	1141	gtgcctcaaacacatgtctaaagctgtcatctcaagtagtgcccatcaaaatgcacctcccc	1200
Db	1141	gtgcctcaaacacatgtctaaagctgtcatctcaagtagtgcccatcaaaatgcacctcccc	1200
Qy	1201	tgtgcagcccatcccgctcccaacagaaagctccccaactctagaactctgtcatcaagatgt	1260
Db	1201	tgtgcagcccatcccgctcccaacagaaagctccccaactctagaactctgtcatcaagatgt	1260
Qy	1261	tacaagccagaaagctccgttgaggtgtgaggtgtctgtgtcttaaacactatgtatgtctac	1320
Db	1261	tacaagccagaaagctccgttgaggtgtgaggtgtctgtgtcttaaacactatgtatgtctac	1320
Qy	1321	accctgagctcaactgcaaacctctccctcccaaggtctcaagcaatctccctgtctcaagctcc	1380
Db	1321	accctgagctcaactgcaaacctctccctcccaaggtctcaagcaatctccctgtctcaagctcc	1380
Qy	1381	cgcgtctgtggaactaaagcgcagacgcgcgactaatcttctgatatgtatagtagaatggt	1440
Db	1381	cgcgtctgtggaactaaagcgcagacgcgcgactaatcttctgatatgtatagtagaatggt	1440
Qy	1441	gtttcacacatatatgaagcccgctgtgtcttgaaactccgtgaactcaaggtgatccaccacctc	1500
Db	1441	gtttcacacatatatgaagcccgctgtgtcttgaaactccgtgaactcaaggtgatccaccacctc	1500
Qy	1501	agctccctcaaaagtgcttgaggtatacagacatgagttcaacgggcgcgcgacaaaggttcagtgct	1560
Db	1501	agctccctcaaaagtgcttgaggtatacagacatgagttcaacgggcgcgcgacaaaggttcagtgct	1560
Qy	1561	ttcaataaggaataaactctgaatgtcttcaataaacaacagagaagaaacagaaacagatctgta	1620
Db	1561	ttcaataaggaataaactctgaatgtcttcaataaacaacagagaagaaacagaaacagatctgta	1620
Qy	1621	tcaattccaggaattctcttggaatgagggaaatgtgtccatagactgtcctgtactgtccagac	1680
Db	1621	tcaattccaggaattctcttggaatgagggaaatgtgtccatagactgtcctgtactgtccagac	1680
Qy	1681	caactgtcccatcaactctctctcccatcccatattctcaagcttaagtctacaattctatc	1740
Db	1681	caactgtcccatcaactctctctcccatcccatattctcaagcttaagtctacaattctatc	1740
Qy	1741	caacatgacctctctgtgttgaaagctcccaatcgtttacatgaaataagatatatacaataactag	1800
Db	1741	caacatgacctctctgtgttgaaagctcccaatcgtttacatgaaataagatatatacaataactag	1800
Qy	1801	ttcccatctggtggccaatctgtgtgtgtatagggggagagggcataccccaagagactcct	1860
Db	1801	ttcccatctggtggccaatctgtgtgtgtatagggggagagggcataccccaagagactcct	1860
Qy	1861	tgaagcccccggacagaggtttctctctccagctgtggggagacctgtcaagcaacccgggtgcc	1920
Db	1861	tgaagcccccggacagaggtttctctctccagctgtggggagacctgtcaagcaacccgggtgcc	1920
Qy	1921	tgggtgtccctggagcaaacctgtcaagcccggtgcacgtgtgtgttctgttatacaactctctagg	1980
Db	1921	tgggtgtccctggagcaaacctgtcaagcccggtgcacgtgtgtgttctgttatacaactctctagg	1980
Qy	1981	gaacctgtgtcttctatctctgtgtgtacactgtcatctcatccagagatcatgtgaacaat	2040
Db	1981	gaacctgtgtcttctatctctgtgtgtacactgtcatctcatccagagatcatgtgaacaat	2040
Qy	2041	tattgtatgaattatatactgtgcagacaacagagaacaatatgtgtagacaaagcagtcatctgc	2100

Db	2041	tatgagtagtactataatactctgcccagacacacagagacaaaatggctgagccaaagcagctcagctc	2100
Qy	2101	ccctacccctcgtctgagagctgagacagcttctctcaatctgaaagagcgtgacagagaagaataatctaaatagccca	2160
Db	2101	ccctacccctctgctgagagctgagacagcttctctcaatctgaaagagcgtgagagagaagaataatctaaatagccca	2160
Qy	2161	gcccaacttaaaacccagctgctctgaaagaagaagaataataaacacacatctcttgaagaattctgtgcg	2220
Db	2161	gcccaacttaaaacccagctgctctgaaagaagaagaataataaacacacatctcttgaagaattctgtgcg	2220
Qy	2221	agcactcccttaacaagagccacatccctctagcgcgcccccgtcttgcctcccaatctgtgacccggag	2280
Db	2221	agcactcccttaacaagagccacatccctctagcgcgcccccgtcttgcctcccaatctgtgacccggag	2280
Qy	2281	cccccaagcccgagctctctccaaagctccctccctccatcagctcaacagcagctctcagcttgagct	2340
Db	2281	cccccaagcccgagctctctccaaagctccctccctccatcagctcaacagcagctctcagcttgagct	2340
Qy	2341	gctctcgtcttcccgctgaaatctgctctgtctgcaatctgagctctgagagacatcccttgctccaaagct	2400
Db	2341	gctctcgtcttcccgctgaaatctgctctgtctgcaatctgagctctgagagacatcccttgctccaaagct	2400
Qy	2401	cccaaaagaggaatctgagagagaggaagaacatctgctcaacagaggaatctctgaaagaggaacagctcttc	2460
Db	2401	cccaaaagaggaatctgagagagaggaagaacatctgctcaacagaggaatctctgaaagaggaacagctcttc	2460
Qy	2461	ctcagagaggaagaaggggctcccaacgctcccaaggaatctccaaagagctgagagagctcgcagagag	2520
Db	2461	ctcagagaggaagaaggggctcccaacgctcccaaggaatctccaaagagctgagagagctcgcagagag	2520
Qy	2521	ctgagagagcgtctgagagctgagagcgggtctctgaaagagcaggaaggtgaaaaagggcaaggtctgaa	2580
Db	2521	ctgagagagcgtctgagagctgagagcgggtctctgaaagagcaggaaggtgaaaaagggcaaggtctgaa	2580
Qy	2581	gctgcccagaagctgttccaagctgtctctcaagagggctcggagagcttcttcgcttgctccctgtgagc	2640
Db	2581	gctgcccagaagctgttccaagctgtctctcaagagggctcggagagcttcttcgcttgctccctgtgagc	2640
Qy	2641	ctcttcttactctctctcgtcgtctgagagaggaagaagctcaatctctcaatgaaagagatgcagcttc	2700
Db	2641	ctcttcttactctctctcgtcgtctgagagaggaagaagctcaatctctcaatgaaagagatgcagcttc	2700
Qy	2701	ataaagctcagctgtctaaaatctcaagaggtgtgcaatctgagttctctctcaacgaaagcccttaat	2760
Db	2701	ataaagctcagctgtctaaaatctcaagaggtgtgcaatctgagttctctctcaacgaaagcccttaat	2760
Qy	2761	cttaatctgaggaatataggaagaagcgaatctcaatctctcccttaggcgcgttcaatctcaagaaagaatgtac	2820
Db	2761	cttaatctgaggaatataggaagaagcgaatctcaatctctcccttaggcgcgttcaatctcaagaaagaatgtac	2820
Qy	2821	ctgagctcttctctctctcaatgtctctctgagcaactcaacccagcccggtgtgtgtgaacttggtctta	2880
Db	2821	ctgagctcttctctctctcaatgtctctctgagcaactcaacccagcccggtgtgtgtgaacttggtctta	2880
Qy	2881	ctgcaagaacggtctgaaaaaacctctggaatctagagaagacatcggtcttctctctgtgtctgtgcatt	2940
Db	2881	ctgcaagaacggtctgaaaaaacctctggaatctagagaagacatcggtcttctctctgtgtgtgcatt	2940
Qy	2941	ggtctgagctgtgagcaacccgtgtggagcaagctgtctctctcccttgagcccaatgctctctcgtct	3000
Db	2941	ggtctgagctgtgagcaacccgtgtggagcaagctgtctctctcccttgagcccaatgctctctcgtct	3000
Qy	3001	ataaaagacccctctgcagctctcgtctgtctctgtgaaacatctccctcgtgtatctctctctgtgaggg	3060
Db	3001	ataaaagacccctctgcagctctcgtctgtctctgtgaaacatctccctcgtgtatctctctctgtgaggg	3060
Qy	3061	ggatctctgagaggggaggaagagagccagagcctctgagccacgctctgagccacagggaggtgtgaagg	3120
Db	3061	ggatctctgagaggggaggaagagagccagagcctctgagccacgctctgagccacagggaggtgtgaagg	3120
Qy	3121	ggacaggaagcagagcagaagctgtgtgtctcaatcagctccatcagctcaatcagctcagctc	3180
Db	3121	ggacaggaagcagagcagaagctgtgtgtctcaatcagctccatcagctcaatcagctcagctc	3180
Qy	3181	ggagcaggaagcagagcagaagctgtgtgtctcaatcagctccatcagctccatcagctcagctc	3240
Db	3181	ggagcaggaagcagagcagaagctgtgtgtctcaatcagctccatcagctccatcagctcagctc	3240

Oy	3181	caggagccgagagccacatctgcttcagggaaaagctcatalgaaacccacagccacatttcct	3240
Db	3181	caggagccgagagccacatctgcttcagggaaaagctcatalgaaacccacagccacatttcct	3240
Oy	3241	lccctaaagcaataagacaatctgcatcttgccaaataacaaaagaatctgcagagactaactggt	3300
Db	3241	lccctaaagcaataagacaatctgcatcttgccaaataacaaaagaatctgcagagactaactggt	3300
Oy	3301	ggtgagctcttgcccttgcatcttcacaaaacttggccagagcaagctggaaaaatgcacagaaatctg	3360
Db	3301	ggtgagctcttgcccttgcatcttcacaaaacttggccagagcaagctggaaaaatgcacagaaatctg	3360
Oy	3361	ctaaactcttcaccccttgacagacacccacagcagcttcagcagctgacctgacagccagc	3420
Db	3361	ctaaactcttcaccccttgacagacacccacagcagcttcagcagctgacctgacagccagc	3420
Oy	3421	agtgaccctgcagcgcagaggagagagaaagaaagagaggaatagtctatgagcaagaaag	3480
Db	3421	agtgaccctgcagcgcagaggagagagaaagaaagagaggaatagtctatgagcaagaaag	3480
Oy	3481	accagatcatctcaagggcagctgggaaatctgacacagagatatagtctccacgtgactctg	3540
Db	3481	accagatcatctcaagggcagctgggaaatctgacacagagatatagtctccacgtgactctg	3540
Oy	3541	gttcctagggagcagggctatatactgtggggggaaaaaatcagcttcacagggaaagctcgagga	3600
Db	3541	gttcctagggagcagggctatatactgtggggggaaaaaatcagcttcacagggaaagctcgagga	3600
Oy	3601	ccctgattctcctaatactatattcttcctcttaacagctgagtaattctgagccagctcacaa	3660
Db	3601	ccctgattctcctaatactatattcttcctcttaacagctgagtaattctgagccagctcacaa	3660
Oy	3661	gtctgaaactgagggctgtaaaatcttaactagttctccttataggaaactcttctctcgt	3720
Db	3661	gtctgaaactgagggctgtaaaatcttaactagttctccttataggaaactcttctctcgt	3720
Oy	3721	ggagctgacgacagcaagggcaatcccgcttccttttaacaggaagaaacatctctctaaagag	3780
Db	3721	ggagctgacgacagcaagggcaatcccgcttccttttaacaggaagaaacatctctctaaagag	3780
Oy	3781	taaaagccaaacagatctcaaacgctcagctgtctgtactatagatctgttctctgaaaaat	3840
Db	3781	taaaagccaaacagatctcaaacgctcagctgtctgtactatagatctgttctctgaaaaat	3840
Oy	3841	caattccagcagatcttctcctatctgattccagaaaaatgagactagtaaccttctgtcagctg	3900
Db	3841	caattccagcagatcttctcctatctgattccagaaaaatgagactagtaaccttctgtcagctg	3900
Oy	3901	taaaacaaaccccgagctgttaaatgtctcaagtctcagccttaactgcagaaacaaatcaaaa	3960
Db	3901	taaaacaaaccccgagctgttaaatgtctcaagtctcagccttaactgcagaaacaaatcaaaa	3960
Oy	3961	agaaataaactctctagagcaaaactgttctctccacatctcgagagctgagcttgcagggc	4020
Db	3961	agaaataaactctctagagcaaaactgttctctccacatctcgagagctgagcttgcagggc	4020
Oy	4021	agcttggaataatactactccaagaatctgacactgttctgtgtattcaacaacaataagt	4080
Db	4021	agcttggaataatactactccaagaatctgacactgttctgtgtattcaacaacaataagt	4080
Oy	4081	tgctcgaagggcaatcatctattctcaagctgagcttaaaagttaactctcgaaagcttttgttat	4140
Db	4081	tgctcgaagggcaatcatctattctcaagctgagcttaaaagttaactctcgaaagcttttgttat	4140
Oy	4141	ctaatctgcatctgcatcttgcttctgttctctctctgttggttataatgtaagaag	4200
Db	4141	ctaatctgcatctgcatcttgcttctgttctctctctgttggttataatgtaagaag	4200
Oy	4201	ggatctataactcagatccagaaagccctgtgaaatttgaaatggagaaaaaattcaattct	4260
Db	4201	ggatctataactcagatccagaaagccctgtgaaatttgaaatggagaaaaaattcaattct	4260

Oy	4261	tgcttttaacacccctcttaactaaatttaacatttatctcaatctgagatagagccataaa	4320
Db	4261	tgcttttaacacccctcttaacataaatttaacatttatctcaatctgagatagagccataaa	4320
Oy	4321	ctcaagctggttaataaacaagtaacctgtgattctgtcattatcaacaatagaaatcaagaactt	4380
Db	4321	ctcaagctggttaataaacaagtaacctgtgattctgtcattatcaacaatagaaatcaagaactt	4380
Oy	4381	ctatactataatcagatctgtctgacagatctgtgaagtgaataattatctactcaaaacta	4440
Db	4381	ctatactataatcagatctgtctgacagatctgtgaagtgaataattatctactcaaaacta	4440
Oy	4441	ctttgaaataatgacctctctgttgatcttctgttaacataatataaacaatgtttaa	4500
Db	4441	ctttgaaataatgacctctctgttgatcttctgttaacataatataaacaatgtttaa	4500
Oy	4501	attcttgatatttgataatacctatctatcaattctgttctccttctgtaactatattt	4560
Db	4501	attcttgatatttgataatacctatctatcaattctgttctccttctgtaactatattt	4560
Oy	4561	ataatcttgaaaacaactctctcgagaagagctcccgagatttcaacaaatgagttctg	4620
Db	4561	ataatcttgaaaacaactctctcgagaagagctcccgagatttcaacaaatgagttctg	4620
Oy	4621	catgcaacacacagagtaagaactgatttagaggttaaaccttgacattgtgtcctgaga	4680
Db	4621	catgcaacacacagagtaagaactgatttagaggttaaaccttgacattgtgtcctgaga	4680
Oy	4681	tgcaagaactgaaataatagaaagtctcccaagaatacacagctgtcttcaaaactaggggtg	4740
Db	4681	tgcaagaactgaaataatagaaagtctcccaagaatacacagctgtcttcaaaactaggggtg	4740
Oy	4741	aggggggaaatctgcgcgtctctataggaatgctcccttgagacctgtgtaggtgtcgtc	4800
Db	4741	aggggggaaatctgcgcgtctctataggaatgctcccttgagacctgtgtaggtgtcgtc	4800
Oy	4801	ctgtgtctcgtgcgcgtgattctctctctgtctcccgctacagctcttaaaagactcttct	4860
Db	4801	ctgtgtctcgtgcgcgtgattctctctctgtctcccgctacagctcttaaaagactcttct	4860
Oy	4861	ggaatccaggtctccctagcatagctgtccttgccagctgacagcttctcaatlgagtctgcagag	4920
Db	4861	ggaatccaggtctccctagcatagctgtccttgccagctgacagcttctcaatlgagtctgcagag	4920
Oy	4921	tgaatggaaataataaactatagaataataatcctgtctgaaataacgacacacagtaactcgtg	4980
Db	4921	tgaatggaaataataaactatagaataataatcctgtctgaaataacgacacacagtaactcgtg	4980
Oy	4981	tgtaaagtgtgtacgt	5040
Db	4981	tgtaaagtgtgtacgt	5040
Oy	5041	tagaagactatacttgggggtcagctgcaataatggggaatgtctctctttaaabaabaactc	5100
Db	5041	tagaagactatacttgggggtcagctgcaataatggggaatgtctctctttaaabaabaactc	5100
Oy	5101	caaacagactctctggaaggttatcttcttaagaactctgtcgtgcagcgttgaaggcaacccc	5160
Db	5101	caaacagactctctggaaggttatcttcttaagaactctgtcgtgcagcgttgaaggcaacccc	5160
Oy	5161	ccctgtgcagagcccccacagccctcaacgttgccacccctctgtctcccccagaaagggctg	5220
Db	5161	ccctgtgcagagcccccacagccctcaacgttgccacccctctgtctcccccagaaagggctg	5220
Oy	5221	gtcccccagatataataaacctctctggaagctcgggcagctgagccagagccacccatc	5280
Db	5221	gtcccccagatataataaacctctctggaagctcgggcagctgagccagagccacccatc	5280
Oy	5281	caggacacctctccagacacagcagagccttccagagaagagccctcacaaagccctctgcaatga	5340
Db	5281	caggacacctctccagacacagcagagccttccagagaagagccctcacaaagccctctgcaatga	5340
Oy	5341	gttctctctgcacagttgtctgcagcttgggacctgagatgacagctgtctcagctgtcgtc	5400

Db	5341	ggtctctctgcaagctctgcagctcttgggcccgagatgcacgcgtgccagctgcgcgc	5400
Qy	5401	ctctgcgcctgcctgctgtgtggaatgtgtgggtccagagacagctcagctctcaggaagccaaatg	5460
Db	5401	ttctgcgcctgcctgctgtgtggaatgtgtgggtccagagacagctcagctctcaggaagccaaatg	5460
Qy	5461	accagagctgagcagatgcagagctatactcttaagctgtgtccagatcccaatgaatccagctgcc	5520
Db	5461	accagagctgagcagatgcagagctatactcttaagctgtgtccagatcccaatgaatccagctgcc	5520
Qy	5521	cagagcagagccagagccatgctcatcctcatcctaactcacaagaagaacagccagccacac	5580
Db	5521	cagagcagagccagagccatgctcatcctcatcctaactcacaagaagaacagccagccacac	5580
Qy	5581	gctctagacctgtgaggtccaccaaagctctgaatcagatctccctgtgagagcctctccacaaat	5640
Db	5581	gctctagacctgtgaggtccaccaaagctctgaatcagatctccctgtgagagcctctccacaaat	5640
Qy	5641	tgaacctgtgacaaaggctctgcagagcccccagagaaacccaagagaggtctgaagagggagctcgg	5700
Db	5641	tgaacctgtgacaaaggctctgcagagcccccagagaaacccaagagaggtctgaagagggagctcgg	5700
Qy	5701	gcacccctgaggtcggtgagctggtgacacgcctgtgaaacccaacacacagagatcttgtagagatgcct	5760
Db	5701	gcacccctgaggtcggtgagctggtgacacgcctgtgaaacccaacacacagagatcttgtagagatgcct	5760
Qy	5761	acagagacacctctctctgcagagacaaagctcaagtctctgtgaggaagaagaagaagcagactaaggacag	5820
Db	5761	acagagacacctctctctgcagagacaaagctcaagtctctgtgaggaagaagaagaagcagactaaggacag	5820
Qy	5821	aaacatgagaaatctgtgcccagagagatctgtgaaagcagagacagagagtgaaacagagctgtgaa	5880
Db	5821	aaacatgagaaatctgtgcccagagagatctgtgaaagcagagacagagagtgaaacagagctgtgaa	5880
Qy	5881	gggggcgcagctgtctccacagaccagagacaaatctgtctcggctgtgtgccacagagctccagagaag	5940
Db	5881	gggggcgcagctgtctccacagaccagagacaaatctgtctcggctgtgtgccacagagctccagagaag	5940
Qy	5941	gtcaagaaatgcagagagctgtgggggagacatctgtgcttcagacaggtgaataagctctgaagctgtg	6000
Db	5941	gtcaagaaatgcagagagctgtgggggagacatctgtgcttcagacaggtgaataagctctgaagctgtg	6000
Qy	6001	ctacagagcgtctcagagcctccctgcctctctctcctagaagctgtgcacagctagcacaaagac	6060
Db	6001	ctacagagcgtctcagagcctccctgcctctctctcctagaagctgtgcacagctagcacaaagac	6060
Qy	6061	agaatgaatataagagaagaacacagatcacacttcacagattactaagtaattagctccctgag	6120
Db	6061	agaatgaatataagagaagaacacagatcacacttcacagattactaagtaattagctccctgag	6120
Qy	6121	agctcattcttagatgagctgtctcagagatctctgtgtgcctctcagagtcag	6169
Db	6121	agctcattcttagatgagctgtctcagagatctctgtgtgtgcctctcagagtcag	6169
RESULT 3			
AAAS7484			
ID	AAAS7484	standard; DNA: 5300 BP.	
XX	AAAS7484;		
XX	20-Oct-2000	(first entry)	
XX	A TIGR (trabecular meshwork inducible glucocorticoid receptor) promoter.		
XX	TIGR: trabecular meshwork inducible glucocorticoid receptor; promoter;		
KM	glaucoma; steroid sensitivity; progressive ocular hypertension;		
XX	vision loss; ss.		
OS	Homo sapiens.		
TH	Key	Location/Qualifiers	

FT	mutation	replace (4337, G)
FT		/*tag- a
FT		/note= "TIGRmt1 mutant"
FT	mutation	replace (4950, T)
FT		/*tag- b
FT		/note= "TIGRmt2 mutant"
FT	mutation	4998
FT		/*tag- c
FT		/note= "GrgT added to produce TIGRmt3 mutant"
FT	mutation	replace (4256, G)
FT		/*tag- d
FT		/note= "TIGRmt4 mutant"
FT	mutation	replace (5113, C)
FT		/*tag- e
FT		/note= "TIGRmt11 mutant"
FT	CAT_signal	5067..5073
FT		/*tag- f
FT		5230..5239
FT	TATA_signal	/*tag- g
XX		
PN	MO200042220-A1.	
XX		
PD	20-JUL-2000.	
XX		
XX		
PF	11-JAN-2000; 2000WO-US00559.	
XX		
PR	11-JAN-1999; 99US-0227681.	
PR	07-MAY-1999; 99US-0306828.	
XX		
PA	(REGC) UNIV CALIFORNIA.	
XX		
PI	Nguyen TD, Polansky JR, Chen P, Chen H;	
DR	WPI: 2000-491060/43.	
XX		
PT	Diagnosis, prognosis and treatment of glaucoma, based on detecting	
PT	specific polymorphisms in the promoter of the trabecular meshwork	
PT	inducible glucocorticoid receptor gene -	
XX		
PS	Claim 34; Fig 1A-E; 122pp: English.	
XX		
CC	The present sequence represents a TIGR (trabecular meshwork inducible	
CC	glucocorticoid receptor) promoter, isolated from an individual	
CC	without glaucoma. The specification describes a method for the diagnosis,	
CC	prognosis and treatment of glaucoma, based on detecting specific	
CC	polymorphisms in the promoter of the TIGR gene. The method is used for	
CC	diagnosis and prognosis of glaucoma (of all types), steroid sensitivity	
CC	and progressive ocular hypertension that leads to loss of vision.	
CC	Glaucoma can be treated by administering an agent that binds to	
CC	cis-acting elements within the TIGR promoter. The TIGR promoter (or	
CC	other regulatory regions) can be used to express homologous or	
CC	heterologous genes, particularly for tissue-specific expression of	
CC	transgenic transgenes for treating glaucoma, also to generate	
CC	transgenic animals and in screening for compounds (specific modulators)	
CC	with diagnostic or therapeutic potential. Fragments of the TIGR	
CC	sequence can be used as amplification primers or probes, e.g. for	
CC	isolating related sequences in non-human animals.	
XX		
XX		

Sequence 5300 BP; 1482 A; 1152 C; 1235 G; 1431 T; 0 other;

[illegible]

QY 121 ggaagaaagaaatcacacagctagccaaagtctccaaagctgtctcgtctcttaatttagtga 180
|||||
Db 121 ggaagaaagaaatcacacagctagccaaagtctccaaagctgtctcgtctctcttaatttagtga 180
QY 181 cagatgtgtctccctcgacagaaagctattctctcagaaacaatcacatctgttaaac 240
|||||
Db 181 cagatgtgtctccctcgacagaaagctattctctcagaaacaatcacatctgttaaac 240
QY 241 catcaaaacagagagctcaagaaacagaaatgaaatgtgtgtccactgtgcccagaagaaatgtccag 300
|||||
Db 241 catcaaaacagagagctcaagaaacagaaatgaaatgtgtgtccactgtgcccagaagaaatgtccag 300
QY 301 gagaacaaataatgaatgaataaaataaactcttcctctgtttttaatttcagaaataatg 360
|||||
Db 301 gagaacaaataatgaatgaataaaataaactcttcctctgtttttaatttcagaaataatg 360
QY 361 atgtgagccaaatcaatctgaataagaaacaagctcagaataaaatgtcttccaaatctg 420
|||||
Db 361 atgtgagccaaatcaatctgaataagaaacaagctcagaataaaatgtcttccaaatctg 420
QY 421 taattaaagtattgtctctctgtggaagaaagccctccactgtgaactgtgaggaataatgtgaa 480
|||||
Db 421 taattaaagtattgtctctctgtggaagaaagccctccactgtgaactgtgaggaataatgtgaa 480
QY 481 aaaaactcaaaagcaatgaactgaactcagaatcccaaaatgtgaattatactttaaaacagat 540
|||||
Db 481 aaaaactcaaaagcaatgaactgaactcagaatcccaaaatgtgaattatactttaaaacagat 540
QY 541 ggcataactctgtggaaggaagaaatctcagaagaatgtcatgttaagaaagagacaataaac 600
|||||
Db 541 ggcataactctgtggaaggaagaaatctcagaagaatgtcatgttaagaaagagacaataaac 600
QY 601 agcaaaatacaaaatctccgcaaaatgtcagaagaaatgtggagctgtgaaagaaatcttaaac 660
|||||
Db 601 agcaaaatacaaaatctccgcaaaatgtcagaagaaatgtggagctgtgaaagaaatcttaaac 660
QY 661 agtgaattagagcaatgaacacatgtctgcacaacactcccgctctatactccagggagacaacaa 720
|||||
Db 661 agtgaattagagcaatgaacacatgtctgcacaacactcccgctctatactccagggagacaacaa 720
QY 721 attgagctgtggtctgaagctctgagactctcaagggaaatatagaataaactgtagagcaaaacaa 780
|||||
Db 721 attgagctgtggtctgaagctctgagactctcaagggaaatatagaataaactgtagagcaaaacaa 780
QY 781 gaaacaggttaaaaggaacacagaaacatgtgtgagctctcaaaagcaagctgtccctcagaa 840
|||||
Db 781 gaaacaggttaaaaggaacacagaaacatgtgtgagctctcaaaagcaagctgtccctcagaa 840
QY 841 ggaacccctgagagcaatttgactcttagaagggcagattctcttaaggaatcttaagaacatc 900
|||||
Db 841 ggaacccctgagagcaatttgactcttagaagggcagattctctcttaaggaatcttaagaacatc 900
QY 901 ctgaaagaatcatgtaaattttaacacatcttaagtaataaaacaatgctgtcgaatcatcag 960
|||||
Db 901 ctgaaagaatcatgtaaattttaacacatcttaagtaataaaacaatgctgtcgaatcatcag 960
QY 961 cttagaacaatgtgtctccaaattctataaagtctgagcaataaagaaataagctgtctccagctcc 1020
|||||
Db 961 cttagaacaatgtgtctccaaattctataaagtctgagcaataaagaaataagctgtctccagctcc 1020
QY 1021 ggaatgtgcagaaatcatctagaatacactgtgtcccaatcttaactctttctagaatgac 1080
|||||
Db 1021 ggaatgtgcagaaatcatctagaatacactgtgtcccaatcttaactctttctagaatgac 1080
QY 1081 tgtcatagccctcacacacagagccgaatgtgtctgaactcacacacacatctctacaacccaa 1140
|||||
Db 1081 tgtcatagccctcacacacagagccgaatgtgtctgaactcacacacacatctctacaacccaa 1140
QY 1141 gtgactcaaacatctgtttaacgtgtcatctctcagtagtcccatcaacaatgtccactccccc 1200
|||||
Db 1141 gtgactcaaacatctgtttaacgtgtcatctctcagtagtcccatcaacaatgtccactccccc 1200
QY 1201 tgttgagcccatcccgctccacaggaagtctctccacatcttagactctgtcatcaagaatgt 1260
|||||

Db 1201 tgttgagcccatcccgctccacaggaagtctctccacatcttagactctgtcatcaagaatgt 1260
|||||
QY 1261 taacagccaagaagctccgtgtgaaggtgtgaaggtctgtgtcttaacaacactgtatgtctaac 1320
|||||
Db 1261 taacagccaagaagctccgtgtgaaggtgtgaaggtctgtgtcttaacaacactgtatgtctaac 1320
QY 1321 aactgtagctcaactgtcaactctgcctccaggtcttaagaacaattctccgtctcaagctctcc 1380
|||||
Db 1321 aactgtagctcaactgtcaactctgcctccaggtcttaagaacaattctccgtctcaagctctcc 1380
QY 1381 cgcgtgaactgtggaactcacagcgccagcccgcttaactcttctgtatgtatgtatgtatgtgag 1440
|||||
Db 1381 cgcgtgaactgtggaactcacagcgccagcccgcttaactcttctgtatgtatgtatgtatgtgag 1440
QY 1441 gtctcaacatattagccgctgtgtctgtgaactctctgaactctccaaagtgtatccacacactc 1500
|||||
Db 1441 gtctcaacatattagccgctgtgtctgtgaactctctgaactctccaaagtgtatccacacactc 1500
QY 1501 agccctcctaaggtgtctgtgattatcacagagatgaactccgctccgagccaaggtctagatgt 1560
|||||
Db 1501 agccctcctaaggtgtctgtgattatcacagagatgaactccgctccgagccaaggtctagatgt 1560
QY 1561 ttaataaggaataaactgtgaatgtttacttaaaacaaacagggaaacagacaagaactgtga 1620
|||||
Db 1561 ttaataaggaataaactgtgaatgtttacttaaaacaaacagggaaacagacaagaactgtga 1620
QY 1621 taattctcagagatctctgtggaatgtgtgtgtatagggagagatgaactgtctgtccctcagac 1680
|||||
Db 1621 taattctcagagatctctgtggaatgtgtgtgtatagggagagatgaactgtctgtccctcagac 1680
QY 1681 caactgtctcaactctctctccctccactccatcttccaaagcttaagcttaagtaacattttat 1740
|||||
Db 1681 caactgtctcaactctctctccctccactccatcttccaaagcttaagcttaagtaacattttat 1740
QY 1741 caaccaatgtctgtgtgaagcctccacacatcgtttactgaataaagatataacataaactag 1800
|||||
Db 1741 caaccaatgtctgtgtgaagcctccacacatcgtttactgaataaagatataacataaactag 1800
QY 1801 ttcacattgtgggacatctgtgtgtgtatagggagagggacatacccagagactcct 1860
|||||
Db 1801 ttcacattgtgggacatctgtgtgtgtatagggagagggacatacccagagactcct 1860
QY 1861 tgaagcccccagagaggtttcctctccagctggggagccctgtcagaagacccgggtcc 1920
|||||
Db 1861 tgaagcccccagagaggtttcctctccagctggggagccctgtcagaagacccgggtcc 1920
QY 1921 tgggtctctgagcaacctgtccagccgtgtccacactgtgtttgttaacactctcctag 1980
|||||
Db 1921 tgggtctctgagcaacctgtccagccgtgtccacactgtgtttgttaacactctcctag 1980
QY 1981 gaactgtgtcttcaattctgtgtgtgaactcgtttcaatccacagagatcatgtgaacat 2040
|||||
Db 1981 gaactgtgtcttcaattctgtgtgtgaactcgtttcaatccacagagatcatgtgaacat 2040
QY 2041 tatitgaattatatactgtgcagacacagaaacaaatgtgtgaagcaaggtcactgtc 2100
|||||
Db 2041 tatitgaattatatactgtgcagacacagaaacaaatgtgtgaagcaaggtcactgtc 2100
QY 2101 cctacactctgtgaggtgaacattctctcatgtgaagaagctgtcagaagaataatcatatgcca 2160
|||||
Db 2101 cctacactctgtgaggtgaacattctctctcatgtgaagaagctgtcagaagaataatcatatgcca 2160
QY 2161 gccaaactaaacccagctgtctgaagaagaataaacaacatctctgaagaatgtgtgcgc 2220
|||||
Db 2161 gccaaactaaacccagctgtctgaagaagaataaacaacatctctgaagaatgtgtgcgc 2220
QY 2221 agcatcccttaacaagggcaccctccctagcgccctgtgtctctccatgtgtccggaggg 2280
|||||
Db 2221 agcatcccttaacaagggcaccctccctagcgccctgtgtctctccatgtgtccggaggg 2280
QY 2281 cccccaagccaggtcttccaaagctccctccatcaatcaacagcgctgagcgct 2340
|||||

Db 2281 cccccagcccgatcttccaaagcctccctccatcagtcacagcgctgcagctgcct 2340
Qy 2341 gcttcgctcccgctgaacgcctccgtgcac tctgaagctggagacctccctggctccaggt 2400
Db 2341 gcttcgctcccgctgaacgcctccgtgcac tctgaagctggagacctccctggctccaggt 2400
Qy 2401 cccgaagagaaatcgagagagagaaatag tctaaacgagaaatctcgagagagagagag 2460
Db 2401 cccgaagagagaaatcgagagagagaaatag tctaaacgagaaatctcgagagagagag 2460
Qy 2461 ctcag 2520
Db 2461 ctcag 2520
Qy 2521 tgggagacgcctggggctggagcggg tgcctgaagagcagagaaagtcgaagagcagagcgaa 2580
Db 2521 tgggagacgcctggggctggagcggg tgcctgaagagcagagaaagtcgaagagcagagcgaa 2580
Qy 2581 gctgcgccagatgcttcagctgtgttcacgagggctgggaggttccgttcgctcgtagc 2640
Db 2581 gctgcgccagatgcttcagctgtgttcacgagggctgggaggttccgttcgctcgtagc 2640
Qy 2641 cctcttaacctctctgcgctggagagagagagagagagagagagagagagagagagag 2700
Db 2641 cctcttaacctctctgcgctggagagagagagagagagagagagagagagagagagag 2700
Qy 2701 ataaagtcagctgtttaaatactcaagggctgcac tgggttctccctcaacgagagccttat 2760
Db 2701 ataaagtcagctgtttaaatactcaagggctgcac tgggttctccctcaacgagagccttat 2760
Qy 2761 ttaaagtggaataaag 2820
Db 2761 ttaaagtggaataaag 2820
Qy 2821 tggagctctctctctcactgtctctggagcaactcaacgagcctgtggctggagcttgc 2880
Db 2821 tggagctctctctctcactgtctctggagcaactcaacgagcctgtggctggagcttgc 2880
Qy 2881 tgcgaagacggtcgaagaaaccttggaaatcagagagagagagagagagagagagagag 2940
Db 2881 tgcgaagacggtcgaagaaaccttggaaatcagagagagagagagagagagagagagag 2940
Qy 2941 ggttggctgttgcgagacggtgggagagagagagagagagagagagagagagagagagag 3000
Db 2941 ggttggctgttgcgagacggtgggagagagagagagagagagagagagagagagagagag 3000
Qy 3001 ataaagacccctgcagactcgcgtgtctgttgaacaacttccctgtgattctctgtgaggg 3060
Db 3001 ataaagacccctgcagactcgcgtgtctgttgaacaacttccctgtgattctctgtgaggg 3060
Qy 3061 ggaatgttgaagaggag 3120
Db 3061 ggaatgttgaagaggag 3120
Qy 3121 ggaacag 3180
Db 3121 ggaacag 3180
Qy 3181 cagagacgag 3240
Db 3181 cagagacgag 3240
Qy 3241 tcccttaagatagacaaatgcatcttgcacaa taaacaaagaaatgagagagagagagagag 3300
Db 3241 tcccttaagatagacaaatgcatcttgcacaa taaacaaagaaatgagagagagagagagag 3300
Qy 3301 ggttagcttctgcctggcatctcaaaaaactgggcagagagagagagagagagagagagag 3360
Db 3301 ggttagcttctgcctggcatctcaaaaaactgggcagagagagagagagagagagagagag 3360
Qy 3361 ttaaaacttccagccctgcag 3420
Db 3361 ttaaaacttccagccctgcag 3420

Qy 3421 agtgaacctgcagcgag 3480
Db 3421 agtgaacctgcagcgag 3480
Qy 3481 acagatcatctcaagggcag tgggaatctgaacacagagagagagagagagagagagagag 3540
Db 3481 acagatcatctcaagggcag tgggaatctgaacacagagagagagagagagagagagagag 3540
Qy 3541 gttctag 3600
Db 3541 gttctag 3600
Qy 3601 cctgattctcaatcatatatttctcttcaacagcctgagagagagagagagagagagagag 3660
Db 3601 cctgattctcaatcatatatttctcttcaacagcctgagagagagagagagagagagagag 3660
Qy 3661 gtagtaacttgaagctgttaagatctatcttctcttcaagagagagagagagagagagag 3720
Db 3661 gtagtaacttgaagctgttaagatctatcttctcttcaagagagagagagagagagagag 3720
Qy 3721 ggaattagcagcag 3780
Db 3721 ggaattagcagcag 3780
Qy 3781 taaagcacaacagatctcaagcctaggtctgtctgaactatactgtgttttgaagaaat 3840
Db 3781 taaagcacaacagatctcaagcctaggtctgtctgaactatactgtgttttgaagaaat 3840
Qy 3841 catctcaagcagtgcttaactatctgaatctgaacaaatgaagactagacccttggctagctg 3900
Db 3841 catctcaagcagtgcttaactatctgaatctgaacaaatgaagactagacccttggctagctg 3900
Qy 3901 taaacaacaacccagctgtgaag 3959
Db 3901 taaacaacaacccagctgtgaag 3959
Qy 3959 taaacaacaacccagctgtgaag 3960
Db 3959 taaacaacaacccagctgtgaag 3960
Qy 3960 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4019
Db 3960 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4019
Qy 4019 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4079
Db 4019 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4079
Qy 4079 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4139
Db 4079 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4139
Qy 4139 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4199
Db 4139 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4199
Qy 4199 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4259
Db 4199 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4259
Qy 4259 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4319
Db 4259 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4319
Qy 4319 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4379
Db 4319 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4379
Qy 4379 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4439
Db 4379 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4439
Qy 4439 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4499
Db 4439 aagaatagaatctttagagacaaactgtgttctccacatctggagagtgagctgcagagag 4499

```
Oy 4500 aatttgatacttgtaataacataatcatcatctgtctcccttgtaatactatc 4559
|||||
Db 4500 aatttgatacttgtaataacataacataatcatcatctgtctcccttgtaatactatc 4559
Oy 4560 tataatctgaaaaacatctctctgagaagaagctccccaagatctcaacaatgagctctc 4619
|||||
Db 4560 tataatctgaaaaacatctctctgagaagaagctccccaagatctcaacaatgagctctc 4619
Oy 4620 gcatctgcacacacacaggtagaagaactgatttagaggtctaaacatctgagctgcagag 4679
|||||
Db 4620 gcatctgcacacacacaggtagaagaactgatttagaggtctaaacatctgagctgcagag 4679
Oy 4680 atgcagaacgcgaatactagaagaagctctccccaagaatacagaagctgtcttaagaagcagag 4739
|||||
Db 4680 atgcagaacgcgaatactagaagaagctctccccaagaatacagaagctgtcttaagaagcagag 4739
Oy 4740 gaggggggaaactctgcagctctctataagaaatgctctccctggaagcctgtgtagggctgct 4799
|||||
Db 4740 gaggggggaaactctgcagctctctataagaaatgctctccctggaagcctgtgtagggctgct 4799
Oy 4800 cctctgtctctgtctgtctgtatctctctgtccctgtcagctcttaagaagcctgtc 4859
|||||
Db 4800 cctctgtctctgtctgtctgtatctctctgtccctgtcagctcttaagaagcctgtc 4859
Oy 4860 tggatctccagctctctagcagtagctgtgcacagctgcaggtctctcaatgagcttgacaga 4919
|||||
Db 4860 tggatctccagctctctagcagtagctgtgcacagctgcaggtctctcaatgagcttgacaga 4919
Oy 4920 gtgaaatgaaatacataaactagaataataatcctctgtctgaatacagaacagctagctcct 4979
|||||
Db 4920 gtgaaatgaaatacataaactagaataataatcctctgtctgaatacagaacagctagctcct 4979
Oy 4980 gtgtgaagctgtgtgtaacgtctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5039
|||||
Db 4980 gtgtgaagctgtgtgtaacgtctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5039
Oy 5040 ataggaaactctatcttggtggtatgggtgcataaacttggaagctctcttttaaaagaagaact 5099
|||||
Db 5040 ataggaaactctatcttggtggtatgggtgcataaacttggaagctctcttttaaaagaagaact 5099
Oy 5100 ccaaaacgaactctctggaagctctatctcttaagaatactctgcgcgagcgtggaagcaaaccc 5159
|||||
Db 5100 ccaaaacgaactctctggaagctctatctcttaagaatactctgcgcgagcgtggaagcaaaccc 5159
Oy 5160 cccctgtgcacagcccaacccagcctcaagctgtgcacacctgtctctccccaatgaagggt 5219
|||||
Db 5160 cccctgtgcacagcccaacccagcctcaagctgtgcacacctgtctctccccaatgaagggt 5219
Oy 5220 ggtctccagatataataaactctctgaggtctggtgagctgagcagcagcagcagcagcagc 5279
|||||
Db 5220 ggtctccagatataataaactctctgaggtctggtgagctgagcagcagcagcagcagcagc 5279
Oy 5280 ccagggcacacctctcagcacagc 5300
|||||
Db 5280 ccagggcacacctctcagcacagc 5300

RESULT 4
AAV51361
ID AAV51361 standard; DNA: 5299 BP.
XX
AC AAV51361.
XX
Dt 27-Oct-1998 (first entry)
XX
DE Human TIGR promoter region DNA.
XX
KW TIGR: trabecular meshwork induced glucocorticoid response protein; human;
XX
OS diagnosis: glaucoma; polymorphism; steroid sensitivity; ss.
XX
XX Homo sapiens.
XX
PN WC9832850-A1.
```

```
XX
PD 30-JUL-1998.
XX
PF 09-JAN-1998; 98WO-US00468.
XX
PR 26-SEP-1997; 97US-0938669.
XX
PR 28-JAN-1997; 97US-0791154.
XX
PA (RECC ) UNIV CALIFORNIA.
XX
PI Chen H, Chen P, Nguyen TD, Polansky JR;
XX
DR WPI: 1998-427946/36.
XX
PT Use of TIGR nucleic acid sequences - used for, e.g. developing
PT products for diagnosis, prognosis and treatment of glaucoma
XX
XX Claim 34; Fig 1; 105pp; English.
XX
CC This sequence is a trabecular meshwork induced glucocorticoid response
CC protein (TIGR) promoter region which is used in a method for diagnosing
CC glaucoma in a patient. The method involves the detection of polymorphisms
CC whose presence is predictive of a mutation affecting TIGR response in the
CC patient and can be diagnostic of glaucoma or steroid sensitivity. Base
CC substitutions and base additions upstream of and within TIGR exons can
CC also be used to diagnose glaucoma.
XX
SQ Sequence 5299 BP; 1482 A; 1151 C; 1235 G; 1431 T; 0 other;

Query Match 85.5% Score 5274.4; DB 19; Length 5299;
Best Local Similarity 99.9% Pred. No. 0;
Matches 5297; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

Oy 1 atctctgtcagttactctcagggctattatgaataatgaaatgaataccaatctgaaag 60
|||||
Db 1 atctctgtcagttactctcagggctattatgaataatgaaatgaataccaatctgaaag 60
Oy 61 tccataaactgtatagcctccatctcgatgtatgtctcttgagcagatgataaagaatca 120
|||||
Db 61 tccataaactgtatagcctccatctcgatgtatgtctcttgagcagatgataaagaatca 120
Oy 121 ggaagaaggagatccagtcagtcagtcagtcagtcagtcagtcagtcagtcagtcagtcagtc 180
|||||
Db 121 ggaagaaggagatccagtcagtcagtcagtcagtcagtcagtcagtcagtcagtcagtcagtc 180
Oy 121 ggaagaaggagatccagtcagtcagtcagtcagtcagtcagtcagtcagtcagtcagtcagtc 180
|||||
Db 121 ggaagaaggagatccagtcagtcagtcagtcagtcagtcagtcagtcagtcagtcagtcagtc 180
Oy 181 cagatgtgtccctgcagacgaagcatctcttcaggaataacatccaatctgtgtaaatc 240
|||||
Db 181 cagatgtgtccctgcagacgaagcatctcttcaggaataacatccaatctgtgtaaatc 240
Oy 241 catcaaacagagctaaagaaacagaaatgagatgagcactgtgccaaaggaaaatgcccag 300
|||||
Db 241 catcaaacagagctaaagaaacagaaatgagatgagcactgtgccaaaggaaaatgcccag 300
Oy 301 gagagcaaatatgataaataaactctccctctgttttaatttcaggaaaatgt 360
|||||
Db 301 gagagcaaatatgataaataaactctccctctgttttaatttcaggaaaatgt 360
Oy 361 atgaggaacaaatcaatgaaataagaaacagctccagaaataaagaatgtcccaattgg 420
|||||
Db 361 atgaggaacaaatcaatgaaataagaaacagctccagaaataaagaatgtcccaattgg 420
Oy 421 taattaaagtatctctccttggaagagacctccatctgagctgtgagtggaataatgggaa 480
|||||
Db 421 taattaaagtatctctccttggaagagacctccatctgagctgtgagtggaataatgggaa 480
Oy 481 aaacgtcaaaagcatgtatcatcagatcccaagctgagatattatttttaaaaccagat 540
|||||
Db 481 aaacgtcaaaagcatgtatcatcagatcccaagctgagatattatttttaaaaccagat 540
Oy 541 ggcatacctctgggagcagagctcagaaagctcagcttgaacaaaggacataacaataac 600
|||||
Db 541 ggcatacctctgggagcagagctcagaaagctcagcttgaacaaaggacataacaataac 600
```

QY	601	agcaaaatcacaatctccgcanaatgcaagaggaataatggagccttgagaaagcttctcaaac	660
Db	601	agcaaaatcacaatctccgcanaatgcaagaggaataatggagccttgagaaagcttctcaaac	660
QY	661	agagatgaagcagttgacattgtctcgcaaacctcccgctctaacaggagacaataa	720
Db	661	agagatgaagcagttgacattgtctcgcaaacctcccgctctaacaggagacaataa	720
QY	721	atcgactggcctaaagccttgagacttccaagggaataatgaaaaacttgagagaaaacaaa	780
Db	721	atcgactggcctaaagccttgagacttccaagggaataatgaaaaacttgagagaaaacaaa	780
QY	781	gacatggttaaaagcgcaacagaatactgtgagccttcaagcgagctgccccctcagca	840
Db	781	gacatggttaaaagcgcaacagaatactgtgagccttcaagcgagctgccccctcagca	840
QY	841	gggacccctggagacttgcccttttagagagccgatttctttaaggaaattctaaaaaactc	900
Db	841	gggacccctggagacttgcccttttagagagccgatttctttaaggaaattctaaaaaactc	900
QY	901	ctgaaagatcatgaaattttaacacattctaaagtaaaaaacaataatgcatgaaataactc	960
Db	901	ctgaaagatcatgaaattttaacacattctaaagtaaaaaacaataatgcatgaaataactc	960
QY	961	tttaagacatgagttcccaattttaaagaatcagagcatacaaggataacggtgtccagctcc	1020
Db	961	tttaagacatgagttcccaattttaaagaatcagagcatacaaggataacggtgtccagctcc	1020
QY	1021	ggaataagctcagaaatacataataagaatactcgtgtccccactcttaacttttccagatgac	1080
Db	1021	ggaataagctcagaaatacataataagaatactcgtgtccccactcttaacttttccagatgac	1080
QY	1081	tgctcaatagccctcaacacacagagccgagatgtgtctgacataaacacatactaaacccaa	1140
Db	1081	tgctcaatagccctcaacacacagagccgagatgtgtctgacataaacacatactaaacccaa	1140
QY	1141	gtctcccaacaactgtttaaaagtgctactcctagatgaggtcccaattaaatgccccctccc	1200
Db	1141	gtctcccaacaactgtttaaaagtgctactcctagatgaggtcccaattaaatgccccctccc	1200
QY	1201	ctgtaagcccatcccgctccacagagaagttcccccactttagacttctgatacagatgac	1260
Db	1201	ctgtaagcccatcccgctccacagagaagttcccccactttagacttctgatacagatgac	1260
QY	1261	tacagagcagaagaagctccgctgagaggtgaggtgtctgttcttaacctactgtatgctctac	1320
Db	1261	tacagagcagaagaagctccgctgagaggtgaggtgtctgttcttaacctactgtatgctctac	1320
QY	1321	aacctggagcccaactgcaaacctctgcctcccccaaggtctcaagcaattctctgtctcagctcc	1380
Db	1321	aacctggagcccaactgcaaacctctgcctcccccaaggtctcaagcaattctctgtctcagctcc	1380
QY	1381	ccgctgagctcggggaactcagagcgacagcccgcttaattcttgtaatgttagtaagaatggg	1440
Db	1381	ccgctgagctcggggaactcagagcgacagcccgcttaattcttgtaatgttagtaagaatggg	1440
QY	1441	gtctcccaataataagcccgctgacttgaaacctgagactcgaagtgagatccacacacctc	1500
Db	1441	gtctcccaataataagcccgctgacttgaaacctgagactcgaagtgagatccacacacctc	1500
QY	1501	agcctctcaaaagtgctgagatacaggaatgagttcaacccgccccgggccaaggtctcagt	1560
Db	1501	agcctctcaaaagtgctgagatacaggaatgagttcaacccgccccgggccaaggtctcagt	1560
QY	1561	ttaaataaagaaataaacttgaaatggttctactcaaaccaacagaggaacagacaaagctgtga	1620
Db	1561	ttaaataaagaaataaacttgaaatggttctactcaaaccaacagaggaacagacaaagctgtga	1620
QY	1621	taattctcagagatctctctgagatcgagggaatcggtgacatacgtacgtcgtctgactgacctcagac	1680
Db	1621	taattctcagagatctctctgagatcgagggaatcggtgacatacgtacgtcgtctgactgacctcagac	1680

QY	1681	acgfcgctccacacacccctctctccctacacccatctttccagcgtaagcttaccatttcat	1740
Db	1681	caacggtccccaacaccccttctctccccaacccaattcttcagcgctaacgtattacatttcat	1740
QY	1741	caacacgctctttgtgtgtaaagcctccacacatcgcttactgtaaaaaataagaaatatacaataacag	1800
Db	1741	caacacgctctttgtgtgtaaagcctccacacatcgcttactgtaaaaaataagaaatatacaataacag	1800
QY	1801	ctccacttvgggcgacacctcgtgtgtgtgtataaaggaggaagagcatcccccagagacctcc	1860
Db	1801	ctccacttvgggcgacacctcgtgtgtgtgtataaaggaggaagagcatcccccagagacctcc	1860
QY	1861	tgaagcggccggcgacagaggtttccctctccacgctvggggagcgccctcgacaagacccgggtgcc	1920
Db	1861	tgaagcggccggcgacagaggtttccctctccacgctvggggagcgccctcgacaagacccgggtgcc	1920
QY	1921	tgggtgtccctcgacgaacccctcgacaaccccgctgcacactgtgtttgtgtatcacctctcag	1980
Db	1921	tgggtgtccctcgacgaacccctcgacaaccccgctgcacactgtgtttgtgtatcacctctcag	1980
QY	1981	gaacgtgtgctcttcactatctcgtgtgtacatcgctatcatccagagcatcatgtgacaatt	2040
Db	1981	gaacgtgtgctcttcactatctcgtgtgtacatcgctatcatccagagcatcatgtgacaatt	2040
QY	2041	tattgtgaactatatactcgcgcagagacacagagacaaatagtgtgagcaagcagctacatgc	2100
Db	2041	tattgtgaactatatactcgcgcagagacacagagacaaatagtgtgagcaagcagctacatgc	2100
QY	2101	ccctacactccgctvgggggtvgacagttcttcacatvgagagacgtgtgcagagaagaaatataatagcca	2160
Db	2101	ccctacactccgctvgggggtvgacagttcttcacatvgagagacgtgtgcagagaagaaatataatagcca	2160
QY	2161	gccaaacttaaaacccagctgtgtgaagaagaagaaataaaacccaactctgtgaagatctgtccgc	2220
Db	2161	gccaaacttaaaacccagctgtgtgaagaagaagaaataaaacccaactctgtgaagatctgtccgc	2220
QY	2221	agcatccctctaaacaagcgcaactccctcagcgccctctgcctccatccgtgtcccgagag	2280
Db	2221	agcatccctctaaacaagcgcaactccctcagcgccctctgcctccatccgtgtcccgagag	2280
QY	2281	cccccaagccggagctctctccaaagcctcctctccatccagcttcacagcgtgtgacgtctcc	2340
Db	2281	cccccaagccggagctctctccaaagcctcctctccatccagcttcacagcgtgtgacgtctcc	2340
QY	2341	gacctgcctcccgctgaaactcgtctccgtgtgacatcctgagacccctctgcacagct	2400
Db	2341	gacctgcctcccgctgaaactcgtctccgtgtgacatcctgagacccctctgcacagct	2400
QY	2401	ccagaaagagaaatvgagagagaggaatacagctctaacgagaaactctvgagggagcagtgcttc	2460
Db	2401	ccagaaagagaaatvgagagagaggaatacagctctaacgagagaaactctvgagggagcagtgcttc	2460
QY	2461	ctccaaagagaaaggggacctccacagctcccaagagagaaatcccaagctgggtvgagactctgacaagag	2520
Db	2461	ctccaaagagaaaggggacctccacagctcccaagagagaaatcccaagctgggtvgagactctgacaagag	2520
QY	2521	tgggtgacgctvgagcgctgaagcggtgtctgtgaagaagcgagaaagtgaaaaagvgcaaaagctcgaa	2580
Db	2521	tgggtgacgctvgagcgctgaagcggtgtctgtgaagaagcgagaaagtgaaaaagvgcaaaagctcgaa	2580
QY	2581	gctgcgccagatgctcagtgctgtgtctcaaggggctvgggagcttccgctgtcctcgtgagc	2640
Db	2581	gctgcgccagatgctcagtgctgtgtctcaaggggctvgggagcttccgctgtcctcgtgagc	2640
QY	2641	ctttttatctttctctcgtccttgagagagaagaagcttatctcaatgaaagggatgcagcttc	2700
Db	2641	ctttttatctttctctcgtccttgagagagaagaagcttatctcaatgaaagggatgcagcttc	2700
QY	2701	ataaagctcagctgttaaaatctcaaggtgtgtgaatgggtcttccctccacgaagcgcttat	2760
Db	2701	ataaagctcagctgttaaaatctcaaggtgtgtgaatgggtcttccctccacgaagcgcttat	2760
QY	2761	ttaatvggaatataaggaagagagacatcttccctcagcgcttaattccacggaagaagtgac	2820

D	2761	ltaaaaggaataaataaggaagcgagacccaatccctaaagccgttaattcaacggaaagaatgac	2820	D	3841	caattcagcgatgtttaactctcgattccagaaaataagagatagtaacccttggtcagctg	3900
Q	2821	tgagatctctctctcaatgctctctcgggcaaacataacagccctctgtgtgagactgtctta	2880	Q	3901	taaaacaacacccagatgtataatgctccaagtcttaacgcttaacatcgaaaccaatacaaa	3959
D	2821	tgagatctctctctcaatgctctctcgggcaaacataacagccctctgtgtgagactgtctta	2880	D	3901	taaaacaacacccagatgtataatgctccaagtcttaacgcttaacatcgaaaccaatacaaa	3960
Q	2881	tcgaagaacggtcgaaaaaccccttgaaatacagagagactcgtttctctctctgtgttcgcatt	2940	Q	3960	aagaatagaattcttagagcaaaactgtgtctccacatccatccgtgagtgagtcgccaag	4019
D	2881	tcgaagaacggtcgaaaaaccccttgaaatacagagagactcgtttctctctctgtgttcgcatt	2940	D	3961	aagaatagaattcttagagcaaaactgtgtctccacatccatccgtgagtgagtcgccaag	4019
Q	2941	ggctcgccgtcgaaacccgtggtggcgaagtgctctccctccctgggccaatgctctctgct	3000	Q	4020	caattggaaaattttaactccaagaatattgacactgtgtgtgtattaaacaataaag	4079
D	2941	ggctcgccgtcgaaacccgtggtggcgaagtgctctccctccctgggccaatgctctctgct	3000	D	4020	caattggaaaattttaactccaagaatattgacactgtgtgtgtattaaacaataaag	4079
Q	3001	ataaagaccctctgcagccctctgtctcttgaaacactcccccgtgaattctctctggggg	3060	Q	4080	ttgctcaaaagccaatacttaattccaagtgtcttaaaattactcttcgacgttttggtata	4139
D	3001	ataaagaccctctgcagccctctgtctcttgaaacactcccccgtgaattctctctggggg	3060	D	4080	ttgctcaaaagccaatacttaattccaagtgtcttaaaattactcttcgacgttttggtata	4139
Q	3061	ggaatctcgaaggggaagagagagacagctcgaagcagcttgagccacaacggggaggtgaaag	3120	Q	4140	tttaattgactatgccaatttgcttttctgtttctctcttggttttaatagtataagca	4199
D	3061	ggaatctcgaaggggaagagagagacagctcgaagcagcttgagccacaacggggaggtgaaag	3120	D	4140	tttaattgactatgccaatttgcttttctgtttctctcttggttttaatagtataagca	4199
Q	3121	ggacaagagagcgagcgaaagcctgggtgtcctcaatcagttccatcgaatacaagtcaagactc	3180	Q	4200	gggataataactacagctccaagaagccgtgtgaatttgaaatcgagcaaaatacaattc	4255
D	3121	ggacaagagagcgagcgaaagcctgggtgtcctcaatcagttccatcgaatacaagtcaagactc	3180	D	4200	gggataataactacagctccaagaagccgtgtgaatttgaaatcgagcaaaatacaattc	4255
Q	3181	cagagccgaagggccaacaaatgctctcaggaagctcacaatgaaacccaacaaacttctctc	3240	Q	4260	ttgtttttacacacttcataaatttaaacatttcaatttccatctgcaataagagccataa	4319
D	3181	cagagccgaagggccaacaaatgctctcaggaagctcacaatgaaacccaacaaacttctctc	3240	D	4260	ttgtttttacacacttcataaatttaaacatttcaatttccatctgcaataagagccataa	4319
Q	3241	tcacctaaagcataagacaatactgcatctgccaataaaccaaaagaaatgagagactcaactgtc	3300	Q	4320	actcaaaagtgttaataaacaataccctggaatttgltcatactcaaaataagaaatacagaat	4379
D	3241	tcacctaaagcataagacaatactgcatctgccaataaaccaaaagaaatgagagactcaactgtc	3300	D	4320	actcaaaagtgttaataaacaataccctggaatttgltcatactcaaaataagaaatacagaat	4379
Q	3301	ggtagactcttcgctggcattcaaaaaatcggtgccagagcaagtgtgaaaatgtccagagaatcg	3360	Q	4380	ttataactataatacagatgtgtcgagaataagctgtgaagtgaaataattatactcaaaact	4439
D	3301	ggtagactcttcgctggcattcaaaaaatcggtgccagagcaagtgtgaaaatgtccagagaatcg	3360	D	4380	ttataactataatacagatgtgtcgagaataagctgtgaagtgaaataattatactcaaaact	4439
Q	3361	ttaaaactcttccaccctcggaccagaccaccccgacgtccagacatgacatgcttgaaagacag	3420	Q	4440	actttgaaattagaacctcccgctgagctctgtttttacaactataataaacaactgttaa	4499
D	3361	ttaaaactcttccaccctcggaccagaccaccccgacgtccagacatgacatgcttgaaagacag	3420	D	4440	actttgaaattagaacctcccgctgagctctgtttttacaactataataaacaactgttaa	4499
Q	3421	agtcgaacctcgacggcagggagagagagaaagagagagatagttcatcgaacaaagaag	3480	Q	4500	aattttgataattctgataatacataattcaattatctgttcccttgtaactcatact	4559
D	3421	agtcgaacctcgacggcagggagagagagagaaagagagagatagttcatcgaacaaagaag	3480	D	4500	aattttgataattctgataatacataattcaattatctgttcccttgtaactcatact	4559
Q	3481	acagaatcattcaacagggcagatggtggaattgaaacaaaggaattatagtcacgttgatccctg	3540	Q	4560	tatatatttgaaaaacatctctctgaagaaggttccccaagattccaaccaatgaagttctcg	4619
D	3481	acagaatcattcaacagggcagatggtggaattgaaacaaaggaattatagtcacgttgatccctg	3540	D	4560	tatatatttgaaaaacatctctctgaagaaggttccccaagattccaaccaatgaagttctcg	4619
Q	3541	gttctcgaagagcgacagggctataattgtgtgggggaaaaaaatcagttccaagggaaatcgaggag	3600	Q	4620	gcatcgacacacacagagtaagaactgataattagaaggttaaaataatgagaaatgtgtccctgag	4679
D	3541	gttctcgaagagcgacagggctataattgtgtgggggaaaaaaatcagttccaagggaaatcgaggag	3600	D	4620	gcatcgacacacacagagtaagaactgataattagaaggttaaaataatgagaaatgtgtccctgag	4679
Q	3601	ccctgaattcctaataactatacttctcccttaacagctgagtaattctcgaacaaatcgcaag	3660	Q	4680	atcgaaagactgaaattgaagaagttctcccaagaatacaacaattgttttaaaagctagaagtt	4739
D	3601	ccctgaattcctaataactatacttctcccttaacagctgagtaattctcgaacaaatcgcaag	3660	D	4680	atcgaaagactgaaattgaagaagttctcccaagaatacaacaattgttttaaaagctagaagtt	4739
Q	3661	gttagtaacctgaggtctgtaagaattacttagttctcccttaataagaaatccttttctctgt	3720	Q	4740	gaagggggaaatccgcgcgtctctaataagaatgctccctcgagccctgtgtaggtgtcgt	4799
D	3661	gttagtaacctgaggtctgtaagaattacttagttctcccttaataagaaatccttttctctgt	3720	D	4740	gaagggggaaatccgcgcgtctctaataagaatgctccctcgagccctgtgtaggtgtcgt	4799
Q	3721	ggaggttagcagacaaagggcaattcccggttctttttaacgggaagaaacaattccttaagag	3780	Q	4800	ccttggtctcgtcggtgttattttctctcgtccctgcacagctcgttaaaaggactgtt	4855
D	3721	ggaggttagcagacaaagggcaattcccggttctttttaacgggaagaaacaattccttaagag	3780	D	4800	ccttggtctcgtcggtgttattttctctcgtccctgcacagctcgttaaaaggactgtt	4855
Q	3781	taaaacgaaacagatctcaagccttaggtctgtcgtgaataataatggttttttggaaaat	3840	Q	4860	tggaatcccaagttctctgaatagtgctctgacaggtgcaggtttccaatggttttgcaag	4919
D	3781	taaaacgaaacagatctcaagccttaggtctgtcgtgaataataatggttttttggaaaat	3840	D	4860	tggaatcccaagttctctgaatagtgctctgacaggtgcaggtttccaatggttttgcaag	4919
Q	3841	caattcagcgatgtttaactctcgattccagaaaataagagatagtaacccttggtcagctg	3900	Q	4920	gtgaaatgaaataaaactagaataataaccctgtgtgaaatcagacaacagatccctg	4979
D	3841	caattcagcgatgtttaactctcgattccagaaaataagagatagtaacccttggtcagctg	3900	D	4920	gtgaaatgaaataaaactagaataataaccctgtgtgaaatcagacaacagatccctg	4979

[illegible]

CC	XX	RESULT	5
CC	XX	AAVS1362	
CC	XX	ID	AAVS1362 standard; DNA; 5300 BP.
CC	XX	AC	
CC	XX	AAVS1362;	
CC	DT	27-OCW-1998	(first entry)
CC	XX	Human TIGR promoter mutant TIGRmcl	DNA.
CC	XX	TIGR; trabecular meshwork induced glucocorticoid response protein; human	
CC	KW	diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.	
CC	XX	Homo sapiens.	
CC	OS	Synthetic.	
CC	XX	Key	Location/Qualifiers
CC	FH	mutallon	4337
CC	FT	/*lag-	a
CC	FT	/note= "Wild type C is replaced by G"	
CC	PN	M09832850-A1.	
CC	XX	30-JUL-1998.	
CC	PD		
CC	XX	09-JAN-1998;	98MO-US00468.
CC	PF		
CC	XX	26-SEP-1997;	97US-0938669.
CC	PR	28-JAN-1997;	97US-0791154.
CC	XX	(RECC) UNIV CALIFORNIA.	
CC	PA		
CC	XX	Chen H, Chen P, Nguyen TD, Polansky JR;	
CC	PI	WP1; 1998-427946/36.	
CC	DR		
CC	XX	Use of TIGR nucleic acid sequences - used for, e.g. developing	
CC	PT	products for diagnosis, prognosis and treatment of glaucoma	
CC	PS	Disclosure; Fig 2; 105pp; English.	
CC	XX	This sequence is a trabecular meshwork induced glucocorticoid response	
CC	XX	protein (TIGR) promoter mutant, TIGRmcl, which is used in a method for	
CC	XX	diagnosing glaucoma in a patient. The method involves the detection of	
CC	XX	polymorphisms whose presence is predictive of a mutation affecting TIGR	
CC	XX	response in the patient and can be diagnostic of glaucoma or steroid	
CC	XX	sensitivity. Base substitutions and base additions upstream of and within	

CC	TIGR exons can also be used to diagnose glaucoma.
XX	
XX	
Sequence	5300 BP; 1482 A; 1151 C; 1236 G; 1431 T; 0 other;
Query Match	85.5%; Score 5273.8; DB 19; Length 5300;
Best Local Similarity	99.9%; Pred. No. 0;
Matches 5297; Conservative	0; Mismatches 2; Indels 2; Gaps 2;

OY	1	atbttfctgcagtttaccctccagggtctattatgaataatgaaatgaatgataccaatgttgaaag	60
Db	1	actcttgctcagtttacttaccctcagggtctattatgaataatgaaatgaataccaatgttgaaag	60
OY	61	tcctctaataactgtatagctcccatctcgatgtatgtctcttgcaggatgtataagaatctca	120
Db	61	tcctctaataactgtatagctcccatctcgatgtatgtctcttgcaggatgtataagaatctca	120
OY	121	ggaagaagagatcatcacgcttagccaaagtgtccagctgtctgtcctcttaatttaagtga	180
Db	121	ggaagaagagatcatccaagcttagccaaagtgtccagctgtctgtcctcttaatttaagtga	180
OY	181	cagatgtgttcctcccgaccagaaagctattcttcaaggaaatacaactccaatgtgttaatc	240
Db	181	cagatgtgttcctcccgaccagaaagctattcttcaaggaaatacaactccaatgtgttaatc	240
OY	241	catcaacaagagagctcaagaataacagaatgtgagatgtgcacttgcaccaaggaaaaatgtccag	300
Db	241	catcaacaagagagctcaagaataacagaatgtgagatgtgcacttgcaccaaggaaaaatgtccag	300
OY	301	gagagcaaaataatgataaataataaacttttcctctgttttctaattctcggaaaaaatgtg	360
Db	301	gagagcaaaataatgataaataataaacttttcctctgttttctaattctcaggaaaaaatgtg	360
OY	361	atgtaggaccataatccaatgtgaataagaaatgaatgcctcagaataaaagatgttccaaatttg	420
Db	361	atgtaggaccataatccaatgtgaataagaaatgaatgcctcagaataaaagatgttccaaatttg	420
OY	421	taattaaagtattctgtcccttgaggaaaggaaacctccaatgtgaagcttgcattgaggaaaaatgggaa	480
Db	421	taattaaagtattctgtcccttgaggaaaggaaacctccaatgtgaagcttgcattgaggaaaaatgggaa	480
OY	481	aaacgtccaaaagcctgtactgtatagaatccccaaggttgatattatcttataaaaccgcat	540
Db	481	aaacgtccaaaagcctgtactgtatagaatccccaaggttgatattatcttataaaaccgcat	540
OY	541	ggcctcacctctgaggagggcacaagtctcaggaaagtcatagtcttagccaaaggacataacaataac	600
Db	541	ggcctcacctctgaggagggcacaagtctcaggaaagtcatagtcttagccaaaggacataacaataac	600
OY	601	agcaaaaatacaaaatctccgcgaatgtgcagtgagaaatgtggagctcgggaaagcttcataac	660
Db	601	agcaaaaatacaaaatctccgcgaatgtgcagtgagaaatgtggagctcgggaaagcttcataac	660
OY	661	agtgatttagcagcttgacatgtctgcgaacaacacctcccgctctataccaagggaacacaaaa	720
Db	661	agtgatttagcagcttgacatgtctgcgaacaacacctcccgctctataccaagggaacacaaaa	720
OY	721	atgtgactggtgctaaagccttgacattctcaagggaataatgtaaaaactggaagccaacaaaa	780
Db	721	atgtgactggtgctaaagccttgacattctcaagggaataatgtaaaaactggaagccaacaaaa	780
OY	781	gacatgtgttaaaaggcaaccagaacatctgtgagccttccaagaagcagtgcccccttaagca	840
Db	781	gacatgtgttaaaaggcaaccagaacatctgtgagccttccaagaagcagtgcccccttaagca	840
OY	841	ggagcccttgaggcactgtgctctttaggaaagccagtttctcttaaggatctttaaagaacct	900
Db	841	ggagcccttgaggcactgtgctctttaggaaagccagtttctcttaaggatctttaaagaacct	900
OY	901	ttgaaagatcatgaaattttaacattttaagataaaacaataatgctgatatctaaatcag	960
Db	901	ttgaaagatcatgaaattttaacattttaagataaaacaataatgctgatatctaaatcag	960

QY	961	tttagaagatggtcccaattttataaagtcagagcataaagataaagtgctccagctcc	1020
Dp	961	tttagaagatggtcccaattttataaagtcagagcataaagataaagtgctccagctcc	1020
QY	1021	ggataaggtcagaaatacataatgaataacagtgctcccatctcnaactttttagaatgatac	1080
Dp	1021	ggataaggtcagaaatacataatgaataacagtgctcccatctcnaactttttagaatgatac	1080
QY	1081	tgctatagccctcacacacacagggccagatgtgtctcagctacacacacacacacacacaa	1140
Dp	1081	tgctatagccctcacacacacagggccagatgtgtctcagctacacacacacacacacacaa	1140
QY	1141	gtgtccctaaccaattgtttaacgtgtcaatctcagtaaggtcccatltacaaatgcacatcccc	1200
Dp	1141	gtgtccctaaccaattgtttaacgtgtcaatctcagtaaggtcccatltacaaatgcacatcccc	1200
QY	1201	tgtagaagcccaatcccgctccacagagaagctccccaacttgaactctctgcatacagatgt	1260
Dp	1201	tgtagaagcccaatcccgctccacagagaagctccccaacttgaactctctgcatacagatgt	1260
QY	1261	taacagcagaagatcccgtagaggttgtaggttgctgtcttaacacccaactgtatgctctac	1320
Dp	1261	taacagcagaagatcccgtagaggttgtaggttgctgtcttaacacccaactgtatgctctac	1320
QY	1321	agctgagatcactgcgaacatctgtcctccaggttcaagcaattctctgtctcagctctcc	1380
Dp	1321	agctgagatcactgcgaacatctgtcctccaggttcaagcaattctctgtctcagctctcc	1380
QY	1381	cgagctagagctcagagctcagagcgacggcgctaatcttttgatgttagtagagatagg	1440
Dp	1381	cgagctagagctcagagctcagagcgacggcgctaatcttttgatgttagtagagatagg	1440
QY	1441	gtttcacacataatagaacccggctgtctcttgaaactctgaactcagactaaggtgaatccacacatc	1500
Dp	1441	gtttcacacataatagaacccggctgtctcttgaaactctgaactcagactaaggtgaatccacacatc	1500
QY	1501	agcctcctaaagtgctctgagatactaaaggaatgaagtcacacggcgccgacagaagtgtaagtg	1560
Dp	1501	agcctcctaaagtgctctgagatactaaaggaatgaagtcacacggcgccgacagaagtgtaagtg	1560
QY	1561	tttaataaggaataaacttgaaatggtttactcctaaacccaacaggggaataacagacaaagctgtga	1620
Dp	1561	tttaataaggaataaacttgaaatggtttactcctaaacccaacaggggaataacagacaaagctgtga	1620
QY	1621	taaatctcaaggaatctctctgagatactgagaaatctggtgcataagagctgccttgatcccaaac	1680
Dp	1621	taaatctcaaggaatctctctgagatactgagaaatctggtgcataagagctgccttgatcccaaac	1680
QY	1681	caactgtctcctacatcacttctctccctcactcctcaattttcagagtaagttaacatattat	1740
Dp	1681	caactgtctcctacatcacttctctccctcactcctcaattttcagagtaagttaacatattat	1740
QY	1741	cacacatgcttttggtgaagccctccacacatcgtttactcgaataaagaagatacataaacttag	1800
Dp	1741	cacacatgcttttggtgaagccctccacacatcgtttactcgaataaagaagatacataaacttag	1800
QY	1801	ctccaatctggggccacatctgtgtgtgtataagggagggaggtgcataaccccagaagctccct	1860
Dp	1801	ctccaatctggggccacatctgtgtgtgtataagggagggaggtgcataaccccagaagctccct	1860
QY	1861	tgaaagcccccgcagaggttctctctccacagcttgtagggagacccctgcgaagacacccgggtctc	1920
Dp	1861	tgaaagcccccgcagaggttctctctccacagcttgtagggagacccctgcgaagacacccgggtctc	1920
QY	1921	tgagggtctccggaagaaactctgcagacccgtgcacactgtgttttgttatacactctctagg	1980
Dp	1921	tgagggtctccggaagaaactctgcagacccgtgcacactgtgttttgttatacactctctagg	1980
QY	1981	gaacctgtgactcttatactctgtgtgtgaacgtgttcaatcttaacagacattatctagaatt	2040
Dp	1981	gaacctgtgactcttatactctgtgtgtgtgaacgtgttcaatcttcaacagacattatctagaatt	2040
QY	2041	tattggaatactatataatgcgcagaacccagagacaaataatgtgtgaacaaagacgtacagctc	2100

Db	2041	latlqaglaactlatactcgcagacacccagagacaanaatlgltvgagcaaaagcagtlactgac	2100
Oy	2101	gcctaccctcggvgagvgtgacagctctctcatalvgaaagagctvgagagaaatlaataagcca	2160
Db	2101	ccctaccctcggvgagvgtgacagctctctcatalvgaaagagctvgagagaaatlaataagcca	2160
Oy	2161	gccaacttaaaacccagctgctgaaagaaagagaaataaaacacatctvgaaagatctgctgcgc	2220
Db	2161	gccaacttaaaacccagctgctgaaagaaagagaaataaaacacatctvgaaagatctgctgcgc	2220
Oy	2221	agcatcccttaacaaagcgcaactctccctagaagcccccctgctctccatctgltgccccgagag	2280
Db	2221	agcatcccttaacaaagcgcaactctccctagaagcccccctgctctccatctgltgccccgagag	2280
Oy	2281	cccccaagcccgagctctctcagaagccctctctccatcagtcagaagcgctgtagagcttgccct	2340
Db	2281	cccccaagcccgagctctctcagaagccctctctccatcagtcagaagcgctgtagagcttgccct	2340
Oy	2341	gctctgcgtctcccgctgaaatctgctctctgctgacatctgagctcagctcttgctcccaagct	2400
Db	2341	gctctgcgtctcccgctgaaatctgctctctgctgacatctgagctcagctcttgctcccaagct	2400
Oy	2401	ccagaaagagaaatvgagagvggaaactagctcacaagvgaaatctvgagvggagcaatgtcttc	2460
Db	2401	ccagaaagagaaatvgagagvggaaactagctcacaagvgaaatctvgagvggagcaatgtcttc	2460
Oy	2461	ctcagaagvgaaagvggagctctccacgtcccaagvgaaatctccagaagvgltvgagagctcgaagag	2520
Db	2461	ctcagaagvgaaagvggagctctccacagctcccaagvgaaatctccagaagvgltvgagagctcgaagag	2520
Oy	2521	tgvgagacgctvgagvgctvgagcgvggtgcttgaagagcgagaaagvgaaagagcgaaagctgaa	2580
Db	2521	tgvgagacgctvgagvgctvgagcgvggtgcttgaagagcgagaaagvgaaagagcgaaagctgaa	2580
Oy	2581	gctgcgccagatctcagtgctgcttgcacagvggctcvgagagcttctccgtctgctctctgtagagc	2640
Db	2581	gctgcgccagatctcagtgctgcttgcacagvggctcvgagagcttctccgtctgctctctgtagagc	2640
Oy	2641	cttttctacctctctccctcgtctcvgaaagaaagagagctcttctcatalvgaaagvgatcgaagcttc	2700
Db	2641	cttttctacctctctccctcgtctcvgaaagaaagagagctcttctcatalvgaaagvgatcgaagcttc	2700
Oy	2701	ataaagctcagcctgcttaaaatctccaaagvgctgctcatalvgagcttctctctcacaagaaagcccttat	2760
Db	2701	ataaagctcagcctgcttaaaatctccaaagvgctgctcatalvgagcttctctctcacaagaaagcccttat	2760
Oy	2761	ttaaatvggaaatacagagaaagcgagctcatcttccatagccgttatcatcacaagaaagagctgac	2820
Db	2761	ttaaatvggaaatacagagaaagcgagctcatcttccatagccgttatcatcacaagaaagagctgac	2820
Oy	2821	tggaatctctttctctcagctctctcvggacaactaaataagccctgtvggvgagagcttgagctta	2880
Db	2821	tggaatctctttctctcagctctctcvggacaactaaataagccctgtvggvgagagcttgagctta	2880
Oy	2881	tgcaagagcvgctcgaaaaacactvgaaatccagvgagactcgggttctctctcgtcttcgacat	2940
Db	2881	tgcaagagcvgctcgaaaaacactvgaaatccagvgagactcgggttctctctcgtcttcgacat	2940
Oy	2941	ggctvgagctvgagacgctvggagcaagtgctctctctctccctcgcctvggagcataagctctctgct	3000
Db	2941	ggctvgagctvgagacgctvggagcaagtgctctctctctccctcgcctvggagcataagctctctgct	3000
Oy	3001	ataaagacccctctgcagcctctcgtgtctctcgtgaaacactcccggtgattctctctgtgaaaggg	3060
Db	3001	ataaagacccctctgcagcctctcgtgtctctcgtgaaacactcccggtgattctctctgtgaaaggg	3060
Oy	3061	ggaatctgagagagvgaaagagagcaagctctgagctcgaagccacaagvggagvgctgaaaggg	3120
Db	3061	ggaatctgagagagvgaaagagagcaagctcgaagctcgaagccacaagvggagvgctgaaaggg	3120
Oy	3121	ggacagggaaagvgcaagacagaaagcttgaggctcctcatagctctcactgatacagctcagaagct	3180

Db 3121 ggaacaggaaagcagcgcaagacgtggtgtccatcagtcctccactgatacagtcagatac 3180
QY 3181 caggaacccgaaagccacaatgtcttcaggaaagctcaatgaaacccacaacgacacatttcct 3240
Db 3181 caggaacccgaaagccacaatgtcttcaggaaagctcaatgaaacccacaacgacacatttcct 3240
QY 3241 tccctaaagcatalagacaaatggtcattctgccaataaaccaaaagaagaatgacgaaatacctggtc 3300
Db 3241 tccctaaagcatalagacaaatggtcattctgccaataaaccaaaagaagaatgacgaaatacctggtc 3300
QY 3301 ggttagctcttctgctgcatctcaaaaacctgggccaagccaagctggaaaatgccaagatactg 3360
Db 3301 ggttagctcttctgctgcatctcaaaaacctgggccaagccaagctggaaaatgccaagatactg 3360
QY 3361 ttaaaccttccaaacccctgaaacgaacccccacgcagctcagcagtgactgtctgcaacgcagc 3420
Db 3361 ttaaaccttccaaacccctgaaacgaacccccacgcagctcagcagtgactgtctgcaacgcagc 3420
QY 3421 agtgaacctgcaagcgcaaggggaaggaagaaagagaagggatagtgataagcaagaag 3480
Db 3421 agtgaacctgcaagcgcaaggggaaggaagaaagagaagggatagtgataagcaagaag 3480
QY 3481 acaagatcatalcacaagggcagctgggaattgaaacaaaggaatacagtcacagtgatccctg 3540
Db 3481 acaagatcatalcacaagggcagctgggaattgaaacaaaggaatacagtcacagtgatccctg 3540
QY 3541 gtctctggaagcagaggtctatactgctgggggaaaaaaatcagatccaaagggaagtcgggaga 3600
Db 3541 gtctctggaagcagaggtctatactgctgggggaaaaaaatcagatccaaagggaagtcgggaga 3600
QY 3601 ccggaattccaaatacatalcttcccttaacaagcctgaaatctccgaaagtcacaag 3660
Db 3601 ccggaattccaaatacatalcttcccttaacaagcctgaaatctccgaaagtcacaag 3660
QY 3661 gtaagaaactgaaagctgtaaaatctacttaagcttcccttaataagaaactcttctccctg 3720
Db 3661 gtaagaaactgaaagctgtaaaatctacttaagcttcccttaataagaaactcttctccctg 3720
QY 3721 ggggtctgaagcacaagaaggcaatcccgctctctttaaaggaaagaacaatccctaagag 3780
Db 3721 ggggtctgaagcacaagaaggcaatcccgctctctttaaaggaaagaacaatccctaagag 3780
QY 3781 taagaacaaacagatccaaagcctagaagctctgctgcaataataatgtgtttttgaaaat 3840
Db 3781 taagaacaaacagatccaaagcctagaagcctctgctgcaataataatgtgtttttgaaaat 3840
QY 3841 caattcagcgaatgttactactctgatactcagaanaatgagaataagtaaccccttggccaagctg 3900
Db 3841 caattcagcgaatgttactactctgatactcagaanaatgagaataagtaaccccttggccaagctg 3900
QY 3901 taagaacaaacccagctgtgtaaatgtctcaagctcagagcttaactcagaaaccaataaa- 3959
Db 3901 taagaacaaacccagctgtgtaaatgtctcaagctcagagcttaactcagaaaccaataaa- 3959
QY 3960 aagaataagaatcctttagagcaaaacgtgtcttccacacactgaaaggctgggtctgccaagg 4019
Db 3961 aagaataagaatcctttagagcaaaacgtgtcttccacac-ctcggaaggctgggtccgccaagg 4019
QY 4020 caggtctggaataatctactctcaagaatctgaaactgtgtctgtaataacaacataaag 4079
Db 4020 caggtctggaataatctactctcaagaatctgaaactgtgtctgtaataacaacataaag 4079
QY 4080 ttgctccaagaagcaacatcatattctcaagctgaaatgaaatcctcagacagttctgtata 4139
Db 4080 ttgctccaagaagcaacatcatattctcaagctgaaatgaaatcctcagacagttctgtata 4139
QY 4140 ttcatctggtcattctgcaactgtctttgtttttcttctcttgggtttatataagtaagaa 4199
Db 4140 ttcatctggtcattctgcaactgtctttgtttttcttctcttgggtttatataagtaagaa 4199
QY 4200 gggatataaacctcaacgtccagaagaagcctggaatttgaaatgagaagaaataatcactt 4259
Db 4200 gggatataaacctcaacgtccagaagaagcctggaatttgaaatgagaagaaataatcactt 4259

QY 4260 ttgttttaaccacacttctaactaaatltaaacatttlaatccatctgcgaatagagccataa 4319
Db 4260 ttgttttaaccacacttctaactaaatltaaacatttlaatccatctgcgaatagagccataa 4319
QY 4320 actcaaaagtgttaataacagtaacctgtgattctgtcaatcccaatagaataccaagacat 4379
Db 4320 actcaaaagtgttaataacagtaacctgtgattctgtcaatcccaatagaataccaagacat 4379
QY 4380 tttaatacataataacagctgtctgcaagaacgtgtgaagtgaataatataataacaaact 4439
Db 4380 tttaatacataataacagctgtctgcaagaacgtgtgaagtgaataatataataacaaact 4439
QY 4440 actttgaataatgaacccctcgctggaatctgtttttaaactataataaacaatgtttaa 4499
Db 4440 actttgaataatgaacccctcgctggaatctgtttttaaactataataaacaatgtttaa 4499
QY 4500 aattctgatactcttgataatacataatcatalcatcatctgttcccttgytaatactaatlt 4559
Db 4500 aattctgatactcttgataatacataatcatalcatcatctgttcccttgytaatactaatlt 4559
QY 4560 tatataattgaaacaactcttctcgagaagaagttccccaattccaccaatgaaagttcctg 4619
Db 4560 tatataattgaaacaactcttctcgagaagaagttccccaattccaccaatgaaagttcctg 4619
QY 4620 gcaatgacacacacagaatgaagaactgatttagaggctaaacatctgacatgtgctctgag 4679
Db 4620 gcaatgacacacacagaatgaagaactgatttagaggctaaacatctgacatgtgctctgag 4679
QY 4680 atgcaagactgaaataatagaagaatctccccaagaatacaacagctgtttaaaggctagg 4739
Db 4680 atgcaagactgaaataatagaagaatctccccaagaatacaacagctgtttaaaggctagg 4739
QY 4740 gaagggggaagaactctgacgctcttaagaagatgctccctgggggacctgtgtaagggtctc 4799
Db 4740 gaagggggaagaactctgacgctcttaagaagatgctccctgggggacctgtgtaagggtctc 4799
QY 4800 ccttgtctctggctgtgctgttaattctctctgtctccctgtcaacgctcttaagaagactgtc 4859
Db 4800 ccttgtctctggctgtgctgttaattctctctgtctccctgtcaacgctcttaagaagactgtc 4859
QY 4860 tggatctccaagctccctaagcatalgtccctggaagctgcaagcttcaatgaaatctgcaga 4919
Db 4860 tggatctccaagctccctaagcatalgtccctggaagctgcaagcttcaatgaaatctgcaga 4919
QY 4920 gtgaatggaataataaacctagaataataccctgtgtgaataatcagaacacacagtaagctcg 4979
Db 4920 gtgaatggaataataaacctagaataataccctgtgtgaataatcagaacacacagtaagctcg 4979
QY 4980 gtgttaagctgtgtgtaagctgt 5039
Db 4980 gtgttaagctgtgtgtaagctgt 5039
QY 5040 atagaagacatataatgggtgtatgggtgtgcatataatggggatgtctcttcttaaaaaagaact 5099
Db 5040 atagaagacatataatgggtgtatgggtgtgcatataatggggatgtctcttcttaaaaaagaact 5099
QY 5100 ccaaacagacactctgaaagatcatcttcaagaactcttctgcaagcgtggaagcaaac 5159
Db 5100 ccaaacagacactctgaaagatcatcttcaagaactcttctgcaagcgtggaagcaaac 5159
QY 5160 cccctgtgcaagccccaacccaagctcgaacgtggaacactctgtctccccaatgaagggtc 5219
Db 5160 cccctgtgcaagccccaacccaagctcgaacgtggaacactctgtctccccaatgaagggtc 5219
QY 5220 ggtccccaagtataataaacctctctggaagctcggtgcaatgacgaagccaaacct 5279
Db 5220 ggtccccaagtataataaacctctctggaagctcggtgcaatgacgaagccaaacct 5279
QY 5280 ccaggcacctctcagcaagc 5300
Db 5280 ccaggcacctctcagcaagc 5300

```
RESULT 6
AAV51363
ID AAV51363 standard; DNA: 5300 BP.
XX
XX AC AAV51363;
XX
XX 27-OCT-1998 (first entry)
XX
XX Human TIGR promoter mutant TIGRmt2 DNA.
XX
XX TIGR: trabecular meshwork induced glucocorticoid response protein; human;
XX diagnosis: glaucoma; polymorphism; steroid sensitivity; mutant; ss.
XX
XX Homo sapiens.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers
XX FT mutation 4950
XX FT /tag- a
XX FT /note= "Wild-type C is replaced with T"
XX
XX MO9832850-A1.
XX
XX 30-JUL-1998.
XX
XX 09-JAN-1998; 98MO-US00468.
XX
XX 26-SEP-1997; 97US-0938669.
XX PR 28-JAN-1997; 97US-0791154.
XX
XX (REGC ) UNIV CALIFORNIA.
XX
XX PI Chen H, Chen P, Nguyen TD, Polansky JR;
XX
XX MPI: 1998-427946/36.
XX
XX Use of TIGR nucleic acid sequences - used for, e.g. developing
XX products for diagnosis, prognosis and treatment of glaucoma
XX
XX Disclosure: Fig 2; 105pp; English.
XX
XX This sequence is a trabecular meshwork induced glucocorticoid response
XX protein (TIGR) promoter mutant, TIGRmt2, which is used in a method for
XX diagnosing glaucoma in a patient. The method involves the detection of
XX polymorphisms whose presence is predictive of a mutation affecting TIGR
XX response in the patient and can be diagnostic of glaucoma or steroid
XX sensitivity. Base substitutions and base additions upstream of and within
XX TIGR exons can also be used to diagnose glaucoma.
XX
XX Sequence 5300 BP; 1482 A; 1151 C; 1235 G; 1432 T; 0 other;
XX
Query Match 85.5%; Score 5273.8; DB 19; Length 5300;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5297; Conservative 0; Mismatches 2; Indels 2; Gaps 2;
```

```
QY 241 catcaaacagagctaaagaaacagaaatgagatgagcacttgcacagaaatgcccag 300
|||||
DB 241 catcaaacagagctaaagaaacagaaatgagatgagcacttgcacagaaatgcccag 300
QY 301 gagagcaaatatgataagaaataaactttcccttgttttaatttcagaaaaatg 360
|||||
DB 301 gagagcaaatatgataagaaataaactttcccttgttttaatttcagaaaaatg 360
QY 361 atgagagcccaaatcaatgataagaaacagctcgaagaaatgattcccaatg 420
|||||
DB 361 atgagagcccaaatcaatgataagaaacagctcgaagaaatgattcccaatg 420
QY 421 taattaagtattgtctccttgggaagagacctccatctgagcttgatgggaaatggaa 480
|||||
DB 421 taattaagtattgtctccttgggaagagacctccatctgagcttgatgggaaatggaa 480
QY 481 aaacgtcaaaagcattgctgatacagatcccaagtgatattattttaaaaccagat 540
|||||
DB 481 aaacgtcaaaagcattgctgatacagatcccaagtgatattattttaaaaccagat 540
QY 541 ggcatacctctggggagagcaggtcaggaaggtcattgagcaaggaatacaataac 600
|||||
DB 541 ggcatacctctggggagagcaggtcaggaaggtcattgagcaaggaatacaataac 600
QY 601 agcaaaaatcaaaaattccgcaaatgcaaggagaaatggggactgggaagctttcataac 660
|||||
DB 601 agcaaaaatcaaaaattccgcaaatgcaaggagaaatggggactgggaagctttcataac 660
QY 661 agtgtatagcaggttgcacatgtctgcacaacatcccgctctatatcaagggaacacaaa 720
|||||
DB 661 agtgtatagcaggttgcacatgtctgcacaacatcccgctctatatcaagggaacacaaa 720
QY 721 attgacctgggctaagccttgagacttcaagggaataatgaaataactgaggaacaaaca 780
|||||
DB 721 attgacctgggctaagccttgagacttcaagggaataatgaaataactgaggaacaaaca 780
QY 781 gacatgtgtaaaaaggaacacagacatctgtgagccttcaaaagcagctgcccctcagca 840
|||||
DB 781 gacatgtgtaaaaaggaacacagacatctgtgagccttcaaaagcagctgcccctcagca 840
QY 841 gggacccttgaggcattgtgcctttagaaggccagtttcttaaggaattctaagaatc 900
|||||
DB 841 gggacccttgaggcattgtgcctttagaaggccagtttcttaaggaattctaagaatc 900
QY 901 ttgaaataatcatgataatttaaccatttaagtataaaacaataatgtagataaatcag 960
|||||
DB 901 ttgaaataatcatgataatttaaccatttaagtataaaacaataatgtagataaatcag 960
QY 961 tttagacatgggtcccaattttataagtcaggaatacagagataaagtttccagctcc 1020
|||||
DB 961 tttagacatgggtcccaattttataagtcaggaatacagagataaagtttccagctcc 1020
QY 1021 ggaatagtcagaataatcatgaaatcacatgtgtcccatccctaacttttcaagaatgac 1080
|||||
DB 1021 ggaatagtcagaataatcatgaaatcacatgtgtcccatccctaacttttcaagaatgac 1080
QY 1081 tgtcatagcccttcacacacagggccgagtggtctgtaccctacaacacatctacaaccaa 1140
|||||
DB 1081 tgtcatagcccttcacacacagggccgagtggtctgtaccctacaacacatctacaaccaa 1140
QY 1141 gtgcctcaaaccatgtttaagtgatcatctcagtgatgggtcccatcctaagtccaactccc 1200
|||||
DB 1141 gtgcctcaaaccatgtttaagtgatcatctcagtgatgggtcccatcctaagtccaactccc 1200
QY 1201 tgttcagcccaatcccgcttcacaagaagttctcccaactctgaacttctgcatacagatg 1260
|||||
DB 1201 tgttcagcccaatcccgcttcacaagaagttctcccaactctgaacttctgcatacagatg 1260
QY 1261 taagagcagaagctcagtgaaagtgaaaggtcgtgtcttaacacacacacgtatagctctac 1320
|||||
DB 1261 taagagcagaagctcagtgaaagtgaaaggtcgtgtcttaacacacacacgtatagctctac 1320
QY 1321 acctgagctcaactgcaaacctctgctcccaaggttcaagaatctctcctgtctcagctcc 1380
```

|||||
Db 1321 acctgagctacacgaaacccctcgccctccaggttcacaagcaattccctctgtctcaagctctc 1380
|||||
Qy 1381 cggctagactgagacataaagcgacagcccgagcaattcttgtaattgtctagtagagatcg 1440
|||||
Db 1381 cggctagactgagacataaagcgacagcccgagcaattcttgtaattgtctagtagagatcg 1440
|||||
Qy 1441 gtttcaacataattagaccggtctgtcttgaaactcttgaaactcaggtgatacccaacttc 1500
|||||
Db 1441 gtttcaacataattagaccggtctgtcttgaaactcttgaaactcaggtgatacccaacttc 1500
|||||
Qy 1501 agctctccataaagtgcctgaggtcttaacaggaatgaacccgagcccgagcaaggttcaggt 1560
|||||
Db 1501 agctctccataaagtgcctgaggtcttaacaggaatgaacccgagcccgagcaaggttcaggt 1560
|||||
Qy 1561 ttaataaagaaataaacttgaaatcggtcttaataaacaacagaaagaaacagaaagctgtga 1620
|||||
Db 1561 ttaataaagaaataaacttgaaatcggtcttaataaacaacagaaagaaacagaaagctgtga 1620
|||||
Qy 1621 taatttcaaggaattctcttgaggaatgaggtgcataatgagctgcctagctccaagac 1680
|||||
Db 1621 taatttcaaggaattctcttgaggaatgaggtgcataatgagctgcctagctccaagac 1680
|||||
Qy 1681 caactgtctccacataactctctccacataactctgaatttcagggctaaagttaacattat 1740
|||||
Db 1681 caactgtctccacataactctctccacataactctgaatttcagggctaaagttaacattat 1740
|||||
Qy 1741 caacatgcttctgttggaagacccacacatcgtctactgaaataaagataatacaataaactag 1800
|||||
Db 1741 caacatgcttctgttggaagacccacacatcgtctactgaaataaagataatacaataaactag 1800
|||||
Qy 1801 ttccaatcttgaggacatctgtgtgtgtataagggagagagagacatacccaagagactcct 1860
|||||
Db 1801 ttccaatcttgaggacatctgtgtgtgtataagggagagagagacatacccaagagactcct 1860
|||||
Qy 1861 tgaagaccccgagagaggtctctctccacagctgagggagagcccgagcaagcccgaggtcc 1920
|||||
Db 1861 tgaagaccccgagagaggtctctctccacagctgagggagagcccgagcaagcccgaggtcc 1920
|||||
Qy 1921 tgggtgtctcttgagaaacctgtgcagacccgtgtgcacatgtgtctgttatacactctcag 1980
|||||
Db 1921 tgggtgtctcttgagaaacctgtgcagacccgtgtgcacatgtgtctgttatacactctcag 1980
|||||
Qy 1981 gtcctgtctctcttatacttctgtgtgtacactcgttatacttccagagctatctgacaatt 2040
|||||
Db 1981 gtcctgtgtctcttatacttctgtgtgtacactcgttatacttccagagctatctgacaatt 2040
|||||
Qy 2041 tatctgagtatactatactgtccagacacacagagacaaatggtgtgagcaaaagcaagtccatgc 2100
|||||
Db 2041 tatctgagtatactatactgtccagacacacagagacaaatggtgtgagcaaaagcaagtccatgc 2100
|||||
Qy 2101 cctaacctctgtgagagtgagacgttctctcatgagagacgtgtgcagaaagaaataataagaca 2160
|||||
Db 2101 cctaacctctgtgagagtgagacgttctctctcatgagagacgtgtgcagaaagaaataataagaca 2160
|||||
Qy 2161 ggcbaacttbaaacccaggtgtctgaaagaaagaaataaaccactctctgaaagattgtgcgc 2220
|||||
Db 2161 ggcbaacttbaaacccaggtgtctgaaagaaagaaataaaccactctctgaaagattgtgcgc 2220
|||||
Qy 2221 agcatctcccttaacaaagccacactccctcagcgccctctgtgcctccatctgtgcctcgagag 2280
|||||
Db 2221 agcatctcccttaacaaagccacactccctcagcgccctctgtgcctccatctgtgcctcgagag 2280
|||||
Qy 2281 cccccaagcccgagctcttccaaagcctcctcctcatalcagtcacagcgctgcagcgtgcgt 2340
|||||
Db 2281 cccccaagcccgagctcttccaaagcctcctcctcatalcagtcacagcgctgcagcgtgcgt 2340
|||||
Qy 2341 gctctgcctcccggtgaatctgtctgtgtgcatctgtgagcgtgagaaacctctgtgctccaagct 2400
|||||
Db 2341 gctctgcctcccggtgaatctgtctgtgtgcatctgtgagcgtgagaaacctctgtgctccaagct 2400
|||||
Qy 2401 ccagaaagaaatgagagagagaaactagcttaacgagaaatctgagagagagaggtcttc 2460
|||||

|||||
Db 2401 ccagaaagaaatgagagagagaaactagcttaacgagaaatctgagagagacgtcttc 2460
|||||
Qy 2461 ctcaagagaaagagggcctccacgctccagagagaaatcccaagaggttgaggactccaagagag 2520
|||||
Db 2461 ctcaagagaaagagggcctccacgctccagagagaaatcccaagaggttgaggactccaagagag 2520
|||||
Qy 2521 tgggagcgtctggggtctgagcggtgtctgaaaggtcaggaaggtgaaaaaggtcagagctgaa 2580
|||||
Db 2521 tgggagcgtctggggtctgagcggtgtctgaaaggtcaggaaggtgaaaaaggtcagagctgaa 2580
|||||
Qy 2581 gctgcgccagaatgtctcaggtgtgtctcagcggtcctggaagttctcgtctcctctgtgagc 2640
|||||
Db 2581 gctgcgccagaatgtctcaggtgtgtctcagcggtcctggaagttctcgtctcctctgtgagc 2640
|||||
Qy 2641 ctttatactctctctgactctgagagaaaggtcattctcaatgaaaggaatgcaatcttc 2700
|||||
Db 2641 ctttatactctctctgactctgagagaaaggtcattctcaatgaaaggaatgcaatcttc 2700
|||||
Qy 2701 ataaagtcagctgttaaaaatccaggggtgtgcatggttctccctcaacgaaggtctta 2760
|||||
Db 2701 ataaagtcagctgttaaaaatccaggggtgtgcatggttctccctcaacgaaggtctta 2760
|||||
Qy 2761 ttaatgagaaataagaaagcagctcattctccagggcgtttaatccaagaaaggtgac 2820
|||||
Db 2761 ttaatgagaaataagaaagcagctcattctccagggcgtttaatccaagaaaggtgac 2820
|||||
Qy 2821 tggagctctctctctcattgtctctgtggaactacacagcccggtgtgtgactgtgctta 2880
|||||
Db 2821 tggagctctctctctcattgtctctgtggaactacacagcccggtgtgtgactgtgctta 2880
|||||
Qy 2881 tgcgaagacggtcgaaaaacctctgaaatcaagagagactcgttctctctctgtctgcacat 2940
|||||
Db 2881 tgcgaagacggtcgaaaaacctctgaaatcaagagagactcgttctctctctgtctgcacat 2940
|||||
Qy 2941 ggttggtctgtgcagccgtgggcaaggtctctctctccctctgggccaatagctctctgtc 3000
|||||
Db 2941 ggttggtctgtgcagccgtgggcaaggtctctctctccctctgggccaatagctctctgtc 3000
|||||
Qy 3001 ataaagacccctgtcagactctcgtgtctgttgaaacactctccctgtgactctctgtgaggg 3060
|||||
Db 3001 ataaagacccctgtcagactctcgtgtctgttgaaacactctccctgtgactctctgtgaggg 3060
|||||
Qy 3061 ggaatgttgagagggagagagagcagagactgtgagacgtctgagccaaagggaggtgaggg 3120
|||||
Db 3061 ggaatgttgagagggagagagagcagagactgtgagacgtctgagccaaagggaggtgaggg 3120
|||||
Qy 3121 ggaacaggaagagcagagagctgtgtgtctcctaagcttcaactgatatcgtacgtcagactc 3180
|||||
Db 3121 ggaacaggaagagcagagagctgtgtgtgtctcctaagcttcaactgatatcgtacgtcagactc 3180
|||||
Qy 3181 cagagccgagagcccaatgtctcaggaaggtccaatgaaacccaacccaacagccacattctct 3240
|||||
Db 3181 cagagccgagagcccaatgtctcaggaaggtccaatgaaacccaacccaacagccacattctct 3240
|||||
Qy 3241 tcccttaagcatagacaatgtgcattgtgccaataaaccaaaaagaaatgcagagactaaactgtc 3300
|||||
Db 3241 tcccttaagcatagacaatgtgcattgtgccaataaaccaaaaagaaatgcagagactaaactgtc 3300
|||||
Qy 3301 ggtagcttctgtctgtgcatttcaaaaactgtggtccaaagaaagtgtgaaatgtccagagattg 3360
|||||
Db 3301 ggtagcttctgtctgtgcatttcaaaaactgtggtccaaagaaagtgtgaaatgtccagagattg 3360
|||||
Qy 3361 ttaaactttcaacccctgtgcagaccccaacagctcagagctgagctgtgacaacagcg 3420
|||||
Db 3361 ttaaactttcaacccctgtgcagaccccaacagctcagagctgagctgtgacaacagcg 3420
|||||
Qy 3421 agtgaactgtcagcgagagggagagaaagaaagagagagtagtgaatgagcaagaaag 3480
|||||
Db 3421 agtgaactgtcagcgagagggagagaaagaaagagagagtagtgaatgagcaagaaag 3480
|||||
Qy 3481 acagatcattccaagagggagagtagtgcacccaagagattatagttccacgtgactctgg 3540
|||||
Db 3481 acagatcattccaagagggagagtagtgcacccaagagattatagttccacgtgactctgg 3540
|||||

OY	3541	gtctctagagagcaggcgctatattctgttgggggagaaaaatcaagcttcagagggaagtcggagaga	3600
Dp	3541	gtctctagagagcaggcgctatattctgttgggggagaaaaatcaagcttcagagggaagtcggagaga	3600
OY	3601	ccgttaattcctaatactatattcttcctttaaagctcgagaaatattctctggagcaagtcacag	3660
Dp	3601	ccgttaattcctaatactatattcttcctttaaagctcgagaaatattctctggagcaagtcacag	3660
OY	3661	gtatgtaacgtgagcgtgtaagaatacttaagttcttcctcttaetgagaaacctttctcgt	3720
Dp	3661	gtatgtaacgtgagcgtgtaagaatacttaagttcttcctcttaetgagaaacctttctcgt	3720
OY	3721	ggagctgagcgacaaaggcgaaaccggttctctttaaagagaagaaaaatctctaagag	3780
Dp	3721	ggagctgagcgacaaaggcgaaaccggttctctttaaagagaagaaaaatctctaagag	3780
OY	3781	ttaaagccaaacagatctcaagccaggtctctgtcgcgtataatgattggttttttgaanaat	3840
Dp	3781	ttaaagccaaacagatctcaagccaggtctctgtcgcgtataatgattggttttttgaanaat	3840
OY	3841	caattccgcagatgttctactctgtaattccagaatgagacgtagtaacctttgctcaagt	3900
Dp	3841	caattccgcagatgttctactctgtaattccagaatgagacgtagtaacctttgctcaagt	3900
OY	3901	ttaaacaaacacccagatctgttaaatgcttcacagtccaaggtttaaactgacagaaacatcaaa	3959
Dp	3901	ttaaacaaacacccagatctgttaaatgcttcacagtccaaggtttaaactgacagaaacatcaaa	3959
OY	3960	aagaaatgaaatcctctagagcaaacctgtttcttcacacatcgtgaggtgagctctgcagag	4019
Dp	3961	aagaaatgaaatcctctagagcaaacctgtttcttcacacatcgtgaggtgagctctgcagag	4019
OY	4020	cagatttggaatatcttaactccacaagtatatgaaacagctgtgtgtgtaattaaacaaataag	4079
Dp	4020	cagatttggaatatcttaactccacaagtatatgaaacagctgtgtgtgtaattaaacaaataag	4079
OY	4080	ctgtctccaaaggcaatcttaattccaaagtgtgcttaaaagttaactctcgcagactttgtgta	4139
Dp	4080	ctgtctccaaaggcaatcttaattccaaagtgtgcttaaaagttaactctcgcagactttgtgta	4139
OY	4140	cttatcggtcattgccaatttgcgtcttctgttcttcttccttcttgggtttataaatgtaagca	4199
Dp	4140	cttatcggtcattgccaatttgcgtcttctgttcttcttccttcttgggtttataaatgtaagca	4199
OY	4200	ggaggttatctaaccatccagctccagaaagccctggaattttgaatggaagaaaaatatcatctt	4259
Dp	4200	ggaggttatctaaccatccagctccagaaagccctggaattttgaatggaagaaaaatatcatctt	4259
OY	4260	ctgtcttctaacaaccttctaataatttaacatttatctccaattgcgaatagaagacataa	4319
Dp	4260	ctgtcttctaacaaccttctaataatttaacatttatctccaattgcgaatagaagacataa	4319
OY	4320	actcaaaagctgtaataacagtaaccgttgatcttgttcatactacaataagaatatcagacat	4379
Dp	4320	actcaaaagctgtaataacagtaaccgttgatcttgttcatactacaataagaatatcagacat	4379
OY	4380	ctttactactataatcaagttgttgcgataatcgtctgtaagtgaaatatcttatctcaaaact	4439
Dp	4380	ctttactactataatcaagttgttgcgataatcgtctgtaagtgaaatatcttatctcaaaact	4439
OY	4440	aactctgaaatatagacccctcgctgggtctcgtttttaacatacttaataaaaacagtcttaa	4499
Dp	4440	aactctgaaatatagacccctcgctgggtctcgtttttaacatacttaataaaaacagtcttaa	4499
OY	4500	aactctgaaatatgagccctcgctgggtctcgtttttaacatacttaataaaaacagtcttaa	4559
Dp	4500	aactctgaaatatgagccctcgctgggtctcgtttttaacatacttaataaaaacagtcttaa	4559
OY	4560	tatatatttgtaaaacacattcttgagagaagatccccagatatccaatgaatgaggttcttg	4619
Dp	4560	tatatatttgtaaaacacattcttgagagaagatccccagatatccaatgaatgaggttcttg	4619

Oy	4620	gcatctcacacaccacagatgaagaacttgatttaagagctaaactatgtacaattcgtgtcccgag	4679		
Db	4620	gcactgcacacacacacagataagaacttgattttaagaggtaaactatgtacattcgtgtcccgag	4679		
Oy	4680	atgcacagactgaattttagaagctcttcgcccaagaatacacagtgtttttaagacgaagggt	4739		
Db	4680	atgcacagactgaattttagaagaagctcttcgcccaagaatacacagtgtttttaagacgaagggt	4739		
Oy	4740	gaaggggggaatctgcgcgtcttcataaggaaaatgcctctcccvgagccgtgtgaaggctgct	4799		
Db	4740	gaaggggggaatctgcgcgtcttcataaggaaaatgcctctcccvgagccgtgtgaaggctgct	4799		
Oy	4800	ccttgtgtcttcvgcgtgctgttaattttctctgtccctgtctaogctcttaagagactgtt	4859		
Db	4800	ccttgtgtcttcvgcgtgctgttaattttctctgtccctgtctaogctcttaagagactgtt	4859		
Oy	4860	tgatcttcacgtctccctacagctagtgcccttgacaaagtgcacagttctcaatgagtttcaga	4919		
Db	4860	tgatcttcacgtctccctacagctagtgcccttgacaaagtgcacagttctcaatgagtttcaga	4919		
Oy	4920	gttcaatcggaaataaaactagaataataacctgtgtgaaatcagcacacacagtatgctctg	4979		
Db	4920	gtgaaatcggaaataataactagaataataacctgtgtgaaatcagcacacacagtatgctctg	4979		
Oy	4980	gtgtaaagtgtgtgtacgt	5039		
Db	4980	gtgtaaagt	5039		
Oy	5040	atcaggaactcttatctggggtatagtggtgcataaatctggagatgtctcttttaaaaaagaact	5099		
Db	5040	atcaggaactcttatctggggtatagtggtgcataaatctggagatgtctcttttaaaaaagaact	5099		
Oy	5100	ccaacacagactcttggaaggtttattcttciaagaatctctgtcggagcgtgtgaaggcaaac	5159		
Db	5100	ccaacacagactcttggaaggtttattcttciaagaatctctgtcggagcgtgtgaaggcaaac	5159		
Oy	5160	ccccctgtgcacagcccaacccacagcctcagcgtgcgcacactctgtcttcccaccaatgaaggct	5219		
Db	5160	ccccctgtgcacagcccaacccacagcctcagcgtgcgcacactctgtcttcccaccaatgaaggct	5219		
Oy	5220	ggctcccccagatatataaaacctctctgtgagctctcgggcatgtagccagcaaggccacccat	5279		
Db	5220	ggctcccccagatatataaaacctctctgtgagctctcgggcatgtagccagcaaggccacccat	5279		
Oy	5280	ccagggcacctctcagcacagc	5300		
Db	5280	ccagggcacctctcagcacagc	5300		
RESULT 7					
ID	AAV51365	standard; DNA: 5300 BP.			
AC	AAV51365;				
DT	27-OCT-1998	(first entry)			
DE	Human TIGR promoter mutant TIGRmt4 DNA.				
KW	TIGR; trabecular meshwork induced glucocorticoid response protein; human; diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.				
OS	Homo sapiens.				
FT	key mutation	Location/Qualifiers 4256 /*tag-a			
PN	WO9832850-A1.	note="Wild-type A is replaced by G"			
PJ	30-JUL-1998.				

XX 09-JAN-1998: 98MO-US00468.
XX 26-SEP-1997: 97US-0938669.
PR 28-JAN-1997: 97US-0791154.
XX
XX (RECC) UNIV CALIFORNIA.
XX
PI Chen H, Chen P, Nguyen TD, Polansky JR:
XX
DR WPI: 1998-427946/36.
XX
PT use of TIGR nucleic acid sequences - used for, e.g. developing
XX products for diagnosis, prognosis and treatment of glaucoma
XX
XX disclosure: Fig 2: 105pp: English.
XX
XX This sequence is a trabecular meshwork induced glucocorticoid response
XX protein (TIGR) promoter mutant, TIGRMt4, which is used in a method for
XX diagnosing glaucoma in a patient. The method involves the detection of
XX polymorphisms whose presence is predictive of a mutation affecting TIGR
XX response in the patient and can be diagnostic of glaucoma or steroid
XX sensitivity. Base substitutions and base additions upstream of and within
XX TIGR exons can also be used to diagnose glaucoma.
XX
XX Sequence 5300 BP; 1481 A; 1152 C; 1236 G; 1431 T; 0 other:

Query Match 85.5%; Score 5273.8; DB 19; Length 5300;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5297; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

QY 1 attctgttcagtttaccctcaggagctatctgaaatgaaatgagataaccaatgtgaag 60
DB 1 attctgttcagtttaccctcaggagctatctgaaatgaaatgagataaccaatgtgaag 60
QY 61 tccataaactgtatagccctccatctcgatgatatgtctcttcggcagagatgataagaatca 120
DB 61 tccataaactgtatagccctccatctcgatgatatgtctcttcggcagagatgataagaatca 120
QY 121 ggaagaaggagatcaccagtttagcagaagtgccaggctgtgtctgtctctattttagtga 180
DB 121 ggaagaaggagatcaccagtttagcagaagtgccaggctgtgtctgtctctattttagtga 180
QY 122 ggaagaaggagatcaccagtttagcagaagtgccaggctgtgtctgtctctattttagtga 180
DB 122 ggaagaaggagatcaccagtttagcagaagtgccaggctgtgtctgtctctattttagtga 180
QY 181 cagaatgtctcctcgaagaagctattcttcaggaacaacacacacataatgttaac 240
DB 181 cagaatgtctcctcgaagaagctattcttcaggaacaacacacacataatgttaac 240
QY 181 cagaatgtctcctcgaagaagctattcttcaggaacaacacacacataatgttaac 240
DB 181 cagaatgtctcctcgaagaagctattcttcaggaacaacacacacataatgttaac 240
QY 241 catcaaacaggagctaaagaaacagaaatgagatggcagcttgcacaaagaaatgcccag 300
DB 241 catcaaacaggagctaaagaaacagaaatgagatggcagcttgcacaaagaaatgcccag 300
QY 301 gagaagaataatgataaataaactcttcctctgtttttaaattccagaaaaaatg 360
DB 301 gagaagaataatgataaataaactcttcctctgtttttaaattccagaaaaaatg 360
QY 301 gagaagaataatgataaataaactcttcctctgtttttaaattccagaaaaaatg 360
DB 301 gagaagaataatgataaataaactcttcctctgtttttaaattccagaaaaaatg 360
QY 361 atgaggaacaaatcgaatgaagaacagctcagaanaaagatgttccaaatltgg 420
DB 361 atgaggaacaaatcgaatgaagaacagctcagaanaaagatgttccaaatltgg 420
QY 421 taatttaagatattgttcccttgggaagacccctcagcttgagcttgaatggaaaatgysaa 480
DB 421 taatttaagatattgttcccttgggaagacccctcagcttgagcttgaatggaaaatgysaa 480
QY 481 aaacgtcaaaagcagatctgatacccaagtggtattttaaataaaacagat 540
DB 481 aaacgtcaaaagcagatctgatacccaagtggtattttaaataaaacagat 540
QY 541 ggcatacactctgggaggaagctcaggaagtcagttagaanaagacatacaataac 600
DB 541 ggcatacactctgggaggaagctcaggaagtcagttagaanaagacatacaataac 600
QY 601 agcaaaatcaaaatccgcgaatgcaggaagaatgagacttgysaaagcttcaataac 660

DB 601 agcaaaatcaaaatccgcgaatgcaggaagaatgagacttgysaaagcttcaataac 660
QY 661 agtgaataggcaattgaaccatgttcgcaaacacccctccgctctacaggagaacaa 720
DB 661 agtgaataggcaattgaaccatgttcgcaaacacccctccgctctacaggagaacaa 720
QY 721 attgacttggtcgaagccttgagacttcaaggaataatgaaatactgagacaacaa 780
DB 721 attgacttggtcgaagccttgagacttcaaggaataatgaaatactgagacaacaa 780
QY 781 gacatgtttaaaaggcaacacagacatgtgagccttcaagcagcagtgccctcagca 840
DB 781 gacatgtttaaaaggcaacacagacatgtgagccttcaagcagcagtgccctcagca 840
QY 841 gggaccctgaggaatcttgacctttaggaagcaggttctcttaaggatcttaagaac 900
DB 841 gggaccctgaggaatcttgacctttaggaagcaggttctcttaaggatcttaagaac 900
QY 901 tgaagaatcagatatttaacatttaagtaataaacaataatgcatgcatgca 960
DB 901 tgaagaatcagatatttaacatttaagtaataaacaataatgcatgcatgca 960
QY 961 ttgaagatggtgtcccaattttaaagtcaggaatacaagataacgtgtccagctcc 1020
DB 961 ttgaagatggtgtcccaattttaaagtcaggaatacaagataacgtgtccagctcc 1020
QY 1021 ggaatgtaagaatacatatgaataatcagtggtcccaatccatcttccagaatgac 1080
DB 1021 ggaatgtaagaatacatatgaataatcagtggtcccaatccatcttccagaatgac 1080
QY 1081 tgcataagccctacacacagagcccgatgtgtctgaccttaacacacatctaaacccaa 1140
DB 1081 tgcataagccctacacacagagcccgatgtgtctgaccttaacacacatctaaacccaa 1140
QY 1141 gtgcctcaacatgtttaaagtgatctcagtaggtcccatatacaatgcccctccc 1200
DB 1141 gtgcctcaacatgtttaaagtgatctcagtaggtcccatatacaatgcccctccc 1200
QY 1201 tgtgagcccatccgctccacaggaagtcctccacacttaagactctgcatcagaatgt 1260
DB 1201 tgtgagcccatccgctccacaggaagtcctccacacttaagactctgcatcagaatgt 1260
QY 1261 taacagcagaagctccgtgagggctgaggtctgtgtcttaacactacccgtatgctaac 1320
DB 1261 taacagcagaagctccgtgagggctgaggtctgtgtcttaacactacccgtatgctaac 1320
QY 1321 acctgagctcactgcgaactctgtgctcccaaggttcaagcaattctcgtctcagctcc 1380
DB 1321 acctgagctcactgcgaactctgtgctcccaaggttcaagcaattctcgtctcagctcc 1380
QY 1381 cgcgtagctgggactcagagcgacgacgcccggcctaattcttgaatgtttagagaatgg 1440
DB 1381 cgcgtagctgggactcagagcgacgacgcccggcctaattcttgaatgtttagagaatgg 1440
QY 1441 gtttccacatataagcccggtctgttgaactcctgacactcagtgatccacccaccc 1500
DB 1441 gtttccacatataagcccggtctgttgaactcctgacactcagtgatccacccaccc 1500
QY 1501 agcctctaaagtgtctgggattacaggaatgcatcgcgcccggcgaaggtcagtg 1560
DB 1501 agcctctaaagtgtctgggattacaggaatgcatcgcgcccggcgaaggtcagtg 1560
QY 1561 ttaataaggaataaacttgaatgtttacttaaaccaacgggaaacagaaagatctgga 1620
DB 1561 ttaataaggaataaacttgaatgtttacttaaaccaacgggaaacagaaagatctgga 1620
QY 1621 taattcaaggatctctgggacggaatggtgcacatgagcgcgcctgagcttagtccacag 1680
DB 1621 taattcaaggatctctgggacggaatggtgcacatgagcgcgcctgagcttagtccacag 1680
QY 1681 cactgtctcactcaactctctcctcactcactatcttcaaggtcaagtaccatttat 1740

Db	1681	caebvgltccatcaactctctccctcaactcccaatttcaagctaaagttaacattat	1740
Oy	1741	caeca tgcctcttgtaagcctccacacacgtctactgaaataaagcatatacaaaatag	1800
Db	1741	caeca tgcctcttgtaagcctccacacacgtctactgaaataaagcatatacaaaatag	1800
Oy	1801	ltcaatctggggcactctgtctgtgtataaggggagggacatacccaagactcct	1860
Db	1801	ltccactctggggcactctgtctgtgtataaggggagggacatacccaagactcct	1860
Oy	1861	tgaagcccccgcaaaaggtctctctccacgctgggggagacccctgcagaacccgggtcc	1920
Db	1861	tgaagcccccgcaaaaggtctctctccacgctgggggagacccctgcagaacccgggtcc	1920
Oy	1921	tgggtgtccctggagcaaacctgcagaccgtgtccactgtgtttgtgtatacaactctaa	1980
Db	1921	tgggtgtccctggagcaaacctgcagaccgtgtccactgtgtttgtgtatacaactctctaa	1980
Oy	1981	gaaccgtgtctctcaatctctgtgtactcgtctcaatctcaaccagacatctgaacaat	2040
Db	1981	gaaccgtgtctctcaatctctgtgtactcgtctcaatctcaaccagacatctgaacaat	2040
Oy	2041	tacttgactactatctctctgcagacacccagagaaacaaatgtgtgagcacaagctcaactgc	2100
Db	2041	tacttgactactatctctctgcagacacccagagaaacaaatgtgtgagcacaagctcaactgc	2100
Oy	2101	ccctaacctctggaggttgacagctctctca tggagagcgtgtccagaaagaaataataagcca	2160
Db	2101	ccctaacctctggaggttgacagctctctca tggagagcgtgtccagaaagaaataataagcca	2160
Oy	2161	gccaacactaaaccccgctgcgtgaagaaagaaataaaacacactctctgaagaaatctgtgcgc	2220
Db	2161	gccaacactaaaccccgctgcgtgaagaaagaaataaaacacactctctgaagaaatctgtgcgc	2220
Oy	2221	agcatccctctaaacaaagccaactcccttaagcgcctcctgtgcctccactcgttccgcgaag	2280
Db	2221	agcatccctctaaacaaagccaactcccttaagcgcctcctgtgcctccactcgttccgcgaag	2280
Oy	2281	cccccaagcccgagctctctcaagacctcctccacatcagctcaagagcctgtcagactgtgcct	2340
Db	2281	cccccaagcccgagctctctcaagacctcctccacatcagctcaagagcctgtcagactgtgcct	2340
Oy	2341	gctcgtcctcccgctgaactcgtctcgtgtgcatctgtgactctggaagactcctgtgcacagact	2400
Db	2341	gctcgtcctcccgctgaactcgtctcgtgtgcatctgtgactctggaagactcctgtgcacagact	2400
Oy	2401	ccagaaagaaagaaatctgagagagagaaactagctctaaagagaaatctctgagagagacagtcttc	2460
Db	2401	ccagaaagaaagaaatctgagagagagaaactagctctaaagagaaatctctgagagagacagtcttc	2460
Oy	2461	ctcagaagagaaaggggcccacacgtctccagagaaatctccagagaggtggggacctgtcagagag	2520
Db	2461	ctcagaagagaaaggggcccacacgtctccagagaaatctccagagaggtggggacctgtcagagag	2520
Oy	2521	tggggagcgtctggggtcgtgagcgggtgcctgaaagcgaggaaggtgaaagagggcacaagctctga	2580
Db	2521	tggggagcgtctggggtcgtgagcgggtgcctgaaagcgaggaaggtgaaagagggcacaagctctga	2580
Oy	2581	gctgcgcagaaagtctcaagtgtgtctcaagggcctggagattcttcgctgtgcctcgtgtgagc	2640
Db	2581	gctgcgcagaaagtgtctcaagtgtgtctcaagggcctggagattcttcgctgtgcctcgtgtgagc	2640
Oy	2641	cttttctatctctctcgtctctgagagagaaagactatctctca tgaagagatcagcttcc	2700
Db	2641	cttttctatctctctcgtctctgagagagaaagactatctctca tgaagagatcagcttcc	2700
Oy	2701	ataaagctcagcgtctaaaaatctccaggtgtgtacatgggtctctccctcaagaaagccttctat	2760
Db	2701	ataaagctcagcgtctaaaaatctccaggtgtgtacatgggtctctccctcaagaaagccttctat	2760
Oy	2761	ctaaatggagaaataaggaagagactcaattctctaaggcgtctaaatctcaagaaagagctgac	2820
Db	2761	ctaaatggagaaataaggaagagactcaattctctaaggcgtctaaatctcaagaaagagctgac	2820
Oy	2821	tggagctctctctctcaatctgtctctctgggcaactcaactcaagccctgtgtgtactgtgcctta	2880
Db	2821	tggagctctctctctcaatctgtctctctgggcaactcaactcaagccctgtgtgtactgtgcctta	2880
Oy	2881	tgcagaagcgtctgaaacaccttggaatcagaagactcgttctctctcgttctgcacat	2940
Db	2881	tgcagaagcgtctgaaacaccttggaatcagaagactcgttctctctcgttctgcacat	2940
Oy	2941	ggttgggtgtggagcgttgggcaagtgtctctctctccctccggggcacaatgtctctcgtc	3000
Db	2941	ggttgggtgtggagcgttgggcaagtgtctctctctccctccggggcacaatgtctctcgtc	3000
Oy	3001	ataaagacccctctgcagctctccgtgtctctgtgaacactctccctgtactctctgtgagag	3060
Db	3001	ataaagacccctctgcagctctccgtgtctctgtgaacactctccctgtactctctgtgagag	3060
Oy	3061	gga tgttgaaaggggaaagagagcagctgtgagcagcttgagccacaagggaggtgtgaggg	3120
Db	3061	gga tgtgtgaaaggggaaagagagcagctgtgagcagcttgagccacaagggaggtgtgaggg	3120
Oy	3121	ggacaggaagggcagggcagaaagcgtgtgtgtccatcaatctccatgtgtacagctac	3180
Db	3121	ggacaggaagggcagggcagaaagcgtgtgtgtccatcaatctccatgtgtacagctac	3180
Oy	3181	caagagccggagagccacaactctctcaagaaagctcaatgtgaacccaaagccacatcttcc	3240
Db	3181	caagagccggagagccacaactctctcaagaaagctcaatgtgaacccaaagccacatcttcc	3240
Oy	3241	tcctctaagcatatagacaaatggcatctgtccaaataacaaagaaatgtcagagactaaactgtgt	3300
Db	3241	tcctctaagcatatagacaaatggcatctgtccaaataacaaagaaatgtcagagactaaactgtgt	3300
Oy	3301	ggttagcttctgtcctgtgcattccaaaactctgggcccagacaaagtgaagaaatgtccaaagactg	3360
Db	3301	ggttagcttctgtcctgtgcattccaaaactctgggcccagacaaagtgaagaaatgtccaaagactg	3360
Oy	3361	ttaaactcttcaacccctcaacagcccccacagcagctcagcaggtacactgtgtgcagcagc	3420
Db	3361	ttaaactcttcaacccctcaacagcccccacagcagctcagcaggtacactgtgtgcagcagc	3420
Oy	3421	agtgcactctgcagcgcaggggagggagaaagaaagaggggaatgtatagtatagtgacaagaag	3480
Db	3421	agtgcactctgcagcgcaggggagggagaaagaaagaggggaatgtatagtatagtgacaagaag	3480
Oy	3481	acagatctcatctcaagggcagctgggaatctgacacaaaggatataatgtccagctgtactcgtg	3540
Db	3481	acagatctcatctcaagggcagctgggaatctgacacaaaggatataatgtccagctgtactcgtg	3540
Oy	3541	gtcttaagagcgagggctataatctgtgggggaaanaatcgaatctcaagggagactctgggaga	3600
Db	3541	gtcttaagagcgagggctataatctgtgggggaaanaatcgaatctcaagggagactctgggaga	3600
Oy	3601	cctgtactcttaataactatctctcccttcaacagctgagtaatctctgagcagactcaag	3660
Db	3601	cctgtactcttaataactatctctcccttcaacagctgagtaatctctgagcagactcaag	3660
Oy	3661	gtatgtactctagcgtctgaaagatctactcctctatataagaaactcttctcgt	3720
Db	3661	gtatgtactctagcgtctgaaagatctactcctctatataagaaactcttctcgt	3720
Oy	3721	ggaggttagcagccaaaggggcaatccgcttctctttaaagagaaagaaacatctccaagag	3780
Db	3721	ggaggttagcagccaaaggggcaatccgcttctctttaaagagaaagaaacatctccaagag	3780
Oy	3781	ttaaagccaaacagatctaaagcctctagcgtctgtgactataatgtatcttcttgaaaaat	3840
Db	3781	ttaaagccaaacagatctaaagcctctagcgtctgtgactataatgtatcttcttgaaaaat	3840
Oy	3841	catctcagcagatgttctactctgtatctcaagaaatgtgagactgtacacctgtgcagctg	3900
Db	3841	catctcagcagatgttctactctgtatctcaagaaatgtgagactgtacacctgtgtgcagctg	3900

[illegible]

Oy 3901 taacacaaacacccagctgttaaatctccaagcttaagcttaactgcagaaaccaatacaaa- 3939
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 3901 taacaaacaccccaatttgttaaatgtlccaagtlccaagcttaactgcagaaaccaatacaaa- 3960
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 3960 aagaaatagaactcttagagcaaaactgtgtctccacaatccggagggtgagctccaggg 4019
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 3961 aagaaatagaactcttagagcaaaactgtgtctccacaatccggagggtgagctccaggg 4019
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4020 cagtttggaatatttcaatctcaagaatltgacacgtgtgtgtatcaataaataaag 4079
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 4020 cagtttggaatatttcaatctcaagaatltgacacgtgtgtgtatcaataaataaag 4079
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4080 tttgtccaagaagcaatctatttccaagtgtcaagttaactcttcagagtttgtata 4139
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 4080 tttgtccaagaagcaatctatttccaagtgtcaagttaactcttcagagtttgtata 4139
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4140 tttcttgagctatgacatttgctcttctgtcttctcccttggtgtttaaagtgaagca 4199
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 4140 tttcttgagctatgacatttgctcttctgtcttctcccttggtgtttaaagtgaagca 4199
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4200 gggatataaactacagatccagaagaagcgtgtgaattgaaatgaagaaatacaatt 4259
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 4200 gggatataaactacagatccagaagaagcgtgtgaattgaaatgaagaaatacaatt 4259
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4260 ttgttttaacacactcttaactaaatttaacatttcaatctgcgaatagagcataa 4319
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 4260 ttgttttaacacactcttaactaaatttaacatttcaatctgcgaatagagcataa 4319
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4320 actcaaaagtgttaataacagtaactgtgaattgttcaattccaataaataacagacat 4379
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 4320 actcaaaagtgttaataacagtaactgtgaattgttcaattccaataaataacagacat 4379
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4380 tttataataataacagatgtgtgcagaatacgtgtcaagtgaatataataatacaaaact 4439
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 4380 tttataataataacagatgtgtgcagaatacgtgtcaagtgaatataataatacaaaact 4439
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4440 actcttgaaatagagccctgcgtgtgaattgttcaataataaatacaatgtttaa 4499
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 4440 actcttgaaatagagccctgcgtgtgaattgttcaataataaatacaatgtttaa 4499
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4500 aacttgataatttgataataatcataattcataatctgttctctgttaatacataattc 4559
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 4500 aacttgataatttgataataatcataattcataatctgttctctgttaatacataattc 4559
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4560 tataataattgaaaaaactctctgcagaagaagcttccccaagattccaacaagaagctctg 4619
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 4560 tataataattgaaaaaactctctgcagaagaagcttccccaagattccaacaagaagctctg 4619
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4620 gcatgtcacacacacagagtaagaacgtatttagaggtcaacattgacattgtgtcctgag 4679
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 4620 gcatgtcacacacacagagtaagaacgtatttagaggtcaacattgacattgtgtcctgag 4679
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4680 atgcagaagctgaataatgaagaagctctcccaagaatacagaatctgtttaaagctlagggc 4739
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 4680 atgcagaagctgaataatgaagaagctctcccaagaatacagaatctgtttaaagctlagggc 4739
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4740 gaggggggaaatctgtccgctctctataagaaatgtctccctgcagacgtgtgaaggtgtgt 4799
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 4740 gaggggggaaatctgtccgctctctataagaaatgtctccctgcagacgtgtgaaggtgtgt 4799
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4800 ccttggtgtctgtgcgtgtgttatttctctgtctccctgcagacgtttaaagactgtt 4859
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 4800 ccttggtgtctgtgcgtgtgttatttctctgtctccctgcagacgtttaaagactgtt 4859
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4860 tggatcccaagctccctagcaatgtcctgtcagaagtgcaagcttccaatgaagttgcaga 4919
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 4860 tggatcccaagctccctagcaatgtcctgtcagaagtgcaagcttccaatgaagttgcaga 4919
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4920 gtgaaatggaataataaactgaataataatctgtgtgaataatgcagacacagtagtccgt 4979
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 4920 gtgaaatggaataataaactgaataataatctgtgtgaataatgcagacacagtagtccgt 4979
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 4980 gtgtaaagtgtgtcaagtgctgt 5039
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Db 4980 gtgtaaagtgtgtcaagtgctgt 5039
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 5040 atagaactatttatgtgggtatgtgtgtatcaataatgttgatgttctttaaagaagaact 5099
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 5040 atagaactatttatgtgggtatgtgtgtatcaataatgttgatgttctttaaagaagaact 5099
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 5100 ccaaacagactctctggaagcttatttcttaagaactctgtctgcagagctgaagcaaaccc 5159
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 5100 ccaaacagactctctggaagcttatttcttaagaactctgtctgcagagctgaagcaaaccc 5159
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 5160 cctctgtcaagagcccaagcctcaagctcaagctgtgcacactgtcttcccaatgaaggtc 5219
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 5160 cctctgtcaagagcccaagcctcaagctcaagctgtgcacactgtcttcccaatgaaggtc 5219
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 5220 ggtccccaatataataaacctctctggaagctctgcagagctgaagcaagccacccat 5279
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 5220 ggtccccaatataataaacctctctggaagctctgcagagctgaagcaagccacccat 5279
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Oy 5280 ccaaggcacactctcagcacagc 5300
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 5280 ccaaggcacactctcagcacagc 5300
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 RESULT 8
 AAV51366 standard; DNA; 5300 BP.
 ID AAV51366 standard; DNA; 5300 BP.
 XX
 AC AAV51366:
 DT 27-OCT-1998 (first entry)
 XX
 DE Human TIGR promoter mutant TIGRmt5 DNA.
 XX
 KW TIGR: trabecular meshwork induced glucocorticoid response protein; human;
 diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.
 OS Homo sapiens.
 OS Synthetic.
 FH Key Location/Qualifiers
 FT mutation 4262
 FT /*tag= a
 /note= "W1ld-type G is replaced with A"
 PN MO9832850-A1.
 XX
 PD 30-JUL-1998.
 XX
 PF 09-JAN-1998; 98WC-US00468.
 XX
 PR 26-SEP-1997; 97US-0938659.
 PR 28-JAN-1997; 97US-0791154.
 XX
 PA (REGC) UNIV CALIFORNIA.
 XX
 PI Chen H, Chen P, Nguyen TD, Polansky JR.
 XX
 DR WPI: 1998-427946/36.
 XX
 PT Use of TIGR nucleic acid sequences - used for, e.g. developing
 products for diagnosis, prognosis and treatment of glaucoma
 XX
 PS Disclosure: Fig 2: 105pp: English.
 XX
 CC This sequence is a trabecular meshwork induced glucocorticoid response
 protein (TIGR) promoter mutant, TIGRmt5, which is used in a method for
 diagnosing glaucoma in a patient. The method involves the detection of
 CC polymorphisms whose presence is predictive of a mutation affecting TIGR
 response in the patient and can be diagnostic of glaucoma or steroid
 CC sensitivity. Base substitutions and base additions upstream of and within
 CC TIGR exons can also be used to diagnose glaucoma.
 CC
 XX

50 Sequence 5300 BP: 1483 A; 1152 C; 1234 G; 1431 T; 0 other;

Query Match 85.58; Score 5273.8; DB 19; Length 5300;
Best Local Similarity 99.96; Pred. No. 0;
Matches 5297; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

OY 1 atctctgttcagttacatcagggctattatgaatatgaatgagataacatgtgaaag 60
DB 1 atctctgttcagttacatcagggctattatgaatatgaatgagataacatgtgaaag 60
OY 61 tccataaacgttataagctcccatcgtatgtatgtctcttgcagagatgaagaatca 120
DB 61 tccataaacgttataagctcccatcgtatgtatgtctcttgcagagatgaagaatca 120
OY 121 ggaagaaaggatataccacgttatgcacaaagtgcacagctgtctgtctctattttagtga 180
DB 121 ggaagaaaggatataccacgttatgcacaaagtgcacagctgtctgtctctattttagtga 180
OY 181 cagatgtgtgcttcgtacagaaagctatctctcaggaataacataccatagtgtaaatc 240
DB 181 cagatgtgtgcttcgtacagaaagctatctctcaggaataacataccatagtgtaaatc 240
OY 241 catcaaacagagagctaaagaaacaggaatgagatggcacttgcacaaagaaatgtccag 300
DB 241 catcaaacagagagctaaagaaacaggaatgagatggcacttgcacaaagaaatgtccag 300
OY 301 gagaagcaaatatgataagaaaaataaactttcccttctttaaattcaggaaaaaatg 360
DB 301 gagaagcaaatatgataagaaaaataaactttcccttctttaaattcaggaaaaaatg 360
OY 361 atcgagagccaaataatcaatgaaataagaaacagctcagaataaagaatgtttccaaattgg 420
DB 361 atcgagagccaaataatcaatgaaataagaaacagctcagaataaagaatgtttccaaattgg 420
OY 421 taattaaagtattctgttccttggagaagaccctcactgtgaagcttgaatggagaatgtggaa 480
DB 421 taattaaagtattctgttccttggagaagaccctcactgtgaagcttgaatggagaatgtggaa 480
OY 481 aaaaagtcataaaagcatgatctgtaacagatcccaaaagtgtatattatcttaaaaaaccagat 540
DB 481 aaaaagtcataaaagcatgatctgtaacagatcccaaaagtgtatattatcttaaaaaaccagat 540
OY 541 ggcctcactctggggagagcaagttcagaagaagttcaatgtttagcaaaagacataaacatgac 600
DB 541 ggcctcactctggggagagcaagttcagaagaagttcaatgtttagcaaaagacataaacatgac 600
OY 601 agcacaataatcaaaatctccgcaaaatgcagagaaatgagaaatgagaaagctttcataaac 660
DB 601 agcacaataatcaaaatctccgcaaaatgcagagaaatgagaaatgagaaagctttcataaac 660
OY 661 agtgaattagcagatgtgacatgtctcgcaaacactcccgctctataccagggaaacaaaaa 720
DB 661 agtgaattagcagatgtgacatgtctcgcaaacactcccgctctataccagggaaacaaaaa 720
OY 721 atctaacctgggtcctcgtgacgtttcagaaggaataatgaataaacctgaaagcaaaaaa 780
DB 721 atctaacctgggtcctcgtgacgtttcagaaggaataatgaataaacctgaaagcaaaaaa 780
OY 781 gacatgtgtttaaagagcaaacagaaacatgtgtagcctctcaaaagcagatgtccctcaga 840
DB 781 gacatgtgtttaaagagcaaacagaaacatgtgtagcctctcaaaagcagatgtccctcaga 840
OY 841 ggaagccctgagagcatctgtcctttaggaagccagtttctttaaagaaatccttaagaactc 900
DB 841 ggaagccctgagagcatctgtcctttaggaagccagtttctttaaagaaatccttaagaactc 900
OY 901 ttgaaagatcattgaatttaaccatttaagtataaaacaatatgcatatcatatag 960
DB 901 ttgaaagatcattgaatttaaccatttaagtataaaacaatatgcatatcatatag 960
OY 961 ttctgaaatcgtgtcccaatttataaagtcaggaatacaagaataagctgtcccaagctcc 1020
DB 961 ttctgaaatcgtgtcccaatttataaagtcaggaatacaagaataagctgtcccaagctcc 1020

DB 961 tttagacatggtgtcccaatttataaagtcaggaatacaagaataagctgtcccaagctcc 1020
OY 1021 ggaataggtcagaataatcattagaataactgtgtcccatcctaatcttttcaagaatgac 1080
DB 1021 ggaataggtcagaataatcattagaataactgtgtcccatcctaatcttttcaagaatgac 1080
OY 1081 tgtcataagccctcaacaacagagccgagatgtgtcgtgaactaaacacatctacaacccaa 1140
DB 1081 tgtcataagccctcaacaacagagccgagatgtgtcgtgaactaaacacatctacaacccaa 1140
OY 1141 gtgcctcaacacattgttaacgtgtcatatctcagtagtcccatcaaaatgtccactccccc 1200
DB 1141 gtgcctcaacacattgttaacgtgtcatatctcagtagtcccatcaaaatgtccactccccc 1200
OY 1201 tgtgcaagcccatcccgctcccaaggaagttcccccactctagaacttctgcatcagatgt 1260
DB 1201 tgtgcaagcccatcccgctcccaaggaagttcccccactctagaacttctgcatcagatgt 1260
OY 1261 tacagccaagaagctccggtgaagggtcgtgtgtcttcaacactaactgtatgtctctaac 1320
DB 1261 tacagccaagaagctccggtgaagggtcgtgtgtcttcaacactaactgtatgtctctaac 1320
OY 1321 accctgaagctcactgcaaacctctgcctcccaagttcacaagcaaatctcctgtctcagcctcc 1380
DB 1321 accctgaagctcactgcaaacctctgcctcccaagttcacaagcaaatctcctgtctcagcctcc 1380
OY 1381 cgcgtagctgtggaactacaagcgcgaagcccggtctaatcttctgtattgttagtagagatgg 1440
DB 1381 cgcgtagctgtggaactacaagcgcgaagcccggtctaatcttctgtattgttagtagagatgg 1440
OY 1441 gtctcaacataattagccgggtgtgtctgtgaactctctgaagctcgaagtgaatcccaacactc 1500
DB 1441 gtctcaacataattagccgggtgtgtctgtgaactctctgaagctcgaagtgaatcccaacactc 1500
OY 1501 agcctcctaagaagtgcctgggaattacaggaatgagtcacccgcgcggcccaaggtcagatgt 1560
DB 1501 agcctcctaagaagtgcctgggaattacaggaatgagtcacccgcgcggcccaaggtcagatgt 1560
OY 1561 ttaataaggaataacttgaatgtgttactaaacaaacagggaaacagacaaagaatctgtga 1620
DB 1561 ttaataaggaataacttgaatgtgttactaaacaaacagggaaacagacaaagaatctgtga 1620
OY 1621 taatttcagggatctcttggatggatgggaatgtgtgcatagatgtgctgtccttagtcccaagac 1680
DB 1621 taatttcagggatctcttggatggatgggaatgtgtgcatagatgtgctgtccttagtcccaagac 1680
OY 1681 caactgtccatcaactctctccctccatccctcaacttctcaggtcaagttaccatttattc 1740
DB 1681 caactgtccatcaactctctccctccatccctcaacttctcaggtcaagttaccatttattc 1740
OY 1741 caccatgtcttctgtgtgaagcctccacaatcgttactgaaataagatatacataaactag 1800
DB 1741 caccatgtcttctgtgtgaagcctccacaatcgttactgaaataagatatacataaactag 1800
OY 1801 ttccatttggggcacaactgtgtgtgtataggggaaggaaggtcattaccaccaagaactcct 1860
DB 1801 ttccatttggggcacaactgtgtgtgtataggggaaggaaggtcattaccaccaagaactcct 1860
OY 1861 tgaagcccccggcagaaggttccctctccagcttgaggggagcccttcaagcaccgggggtcc 1920
DB 1861 tgaagcccccggcagaaggttccctctccagcttgaggggagcccttcaagcaccgggggtcc 1920
OY 1921 tgggtgtcctgaagcaacctgcgaagcccgctgcacactgtgtgttctgttaccctctcagg 1980
DB 1921 tgggtgtcctgaagcaacctgcgaagcccgctgcacactgtgtgttctgttaccctctcagg 1980
OY 1981 gacctgtgcttcttattctcgtgtgaactcgtttacatacccaaggaatcttaagaatt 2040
DB 1981 gacctgtgcttcttattctcgtgtgaactcgtttacatacccaaggaatcttaagaatt 2040
OY 2041 tatgtgaactatatactgcgacagacacagagacaaaatgtgtgagcaaaagatcactgtc 2100
DB 2041 tatgtgaactatatactgcgacagacacagagacaaaatgtgtgagcaaaagatcactgtc 2100

QY	2101	cccaacccctcgtcgtgaggtcgtacagatctctccatctgaaagacgtctgcagaaagaaatctaaatctaaacga	2160
Db	2101	ccctaacctctcgtgaggtggtgacagatctctccatctgaaagacgtctgcagaaagaaatctaaatctaaacga	2160
QY	2161	gccaacatctaaacccccaagctgctcgtgaaagaaagaaataaaacccatctctgaaagaattctgtccgc	2220
Db	2161	gccaacatctaaacccccaagctgctcgtgaaagaaagaaataaaacccatctctgaaagaattctgtccgc	2220
QY	2221	agcaatccctctaaacaaagggccacccctcccaagggcccccctgtgctctccatctcgtcgtcccgaggg	2280
Db	2221	agcaatccctctaaacaaagggccacccctcccaagggcccccctgtgctctccatctcgtcgtcccgaggg	2280
QY	2281	cccccaagcccgagctctctccaaagctctctccctccatccaaatcccaagcgtctgcagctctgagctctgagct	2340
Db	2281	cccccaagcccgagctctctccaaagctctctccctccatccaaatcccaagcgtctgcagctctgagctctgagct	2340
QY	2341	gctctcgtctcccgctgaaatcgtctcctgtgtcaatctctgactctgagctcgtgagactcctctgtgctccagct	2400
Db	2341	gctctcgtctcccgctgaaatcgtctcctgtgtcaatctctgactctgagctcgtgagactcctctgtgctccagct	2400
QY	2401	ccagaaagagaaatctgaaagagagaaacaaatcagctctaaacgaaagaaatctgtgagggagagatgtcttc	2460
Db	2401	ccagaaagagaaatctgaaagagagaaacaaatcagctctaaacgaaagaaatctgtgagggagagatgtcttc	2460
QY	2461	ctcaagaaagaaagaggggctcccaagctcccaagaaagaaatctcaagagaggtctgaggagctctgcagagag	2520
Db	2461	ctcaagaaagaaagaggggctcccaagctcccaagaaagaaatctcaagagaggtctgaggagctctgcagagag	2520
QY	2521	ctgagagagctctgagggctgagagcggttgctctgaaagagcagaaaggtctgaaagagagcagagctgaa	2580
Db	2521	ctgagagagctctgagggctgagagcggttgctctgaaagagcagaaaggtctgaaagagagcagagctgaa	2580
QY	2581	gctgcgccaaagatctcaagctctgtctccacgggggctctggagatctctccgtctgtctccctccgtgagc	2640
Db	2581	gctgcgccaaagatctcaagctctgtctccacgggggctctggagatctctccgtctgtctccctccgtgagc	2640
QY	2641	ctctctcatctctctccctcgtcctctgagagaaagaaagaaatctaatctctaaagaaagaaatctgcagcttc	2700
Db	2641	ctctctcatctctctccctcgtcctctgagagaaagaaagaaatctaatctctaaagaaagaaatctgcagcttc	2700
QY	2701	atcaaaatctcagctctgctctaaaatctccaggggtgtgtcagctgttctctccctcccaagagcccttat	2760
Db	2701	atcaaaatctcagctctgctctaaaatctccaggggtgtgtcagctgttctctccctcccaagagcccttat	2760
QY	2761	ctaaatctgagaaataatgagagagagctccatctctccacggccgtctaaatccagagaaagagagagc	2820
Db	2761	ctaaatctgagaaataatgagagagagctccatctctccacggccgtctaaatccagagaaagagagagc	2820
QY	2821	ctgagctctctctctctcaatctcgtcctctcgtgagaaactatccagccctgtgtgtctgagctctgagctta	2880
Db	2821	ctgagagctctctctctcaatctcgtcctctcgtgagaaactatccagccctgtgtgtctgagctctgagctta	2880
QY	2881	ctgcaagagcgtctgaaataaacctctgaaatctcaagagagactcgtgtctctctctcgtctctcgtccat	2940
Db	2881	ctgcaagagcgtctgaaataaacctctgaaatctcaagagagactcgtgtctctctctcgtctctcgtccat	2940
QY	2941	ggtctcgtcgtctgtcgtacccgtctggtgagaaagtctctctctccctccctctccctctggtccatagctctctcgtc	3000
Db	2941	ggtctcgtcgtctgtcgtacccgtctggtgagaaagtctctctctccctccctctccctctggtccatagctctctcgtc	3000
QY	3001	atcaaaagacccctctgcagagctctcgtctcgtctgtgaaacatctccctctgtgatatctctctctgtgaaaggg	3060
Db	3001	atcaaaagacccctctgcagagctctcgtctcgtctgtgaaacatctccctctgtgatatctctctctgtgaaaggg	3060
QY	3061	ggatctctgagagaggtgagaaagagagctctgaaagcctctgaaagcctctgaaacaaagggagaggtctgaggg	3120
Db	3061	ggatctctgagagaggtgagaaagagagctctgaaagcctctgaaagcctctgaaacaaagggagaggtctgaggg	3120
QY	3121	ggacaaagaaagacaggtcgtgagaaagcgtgggtctctccatcaatcagctctccatctgatacagctctagaatc	3180
Db	3121	ggacaaagaaagacaggtcgtgagaaagcgtgggtctctccatcaatcagctctccatctgatacagctctagaatc	3180

QY	3181	caggaecgagagccacaatgcttcacggaaagctccaattgaacccaacagccacatttccct	32400
Db	3181	caggaecgagagccacaatgcttcacggaaagctccaattgaacccaacagccacatttccct	32400
QY	3241	tcocctaaagcatagagcaaatgagcatttgcgcaataacaaaagaatcagagataactgtc	33000
Db	3241	tcocctaaagcatagagcaaatgagcatttgcgcaataacaaaagaatcagagataactgtc	33000
QY	3301	ggtaagctcttcgcgagatctcaaaaactggccagagcgaaagtgcgaataatgcgaagatgc	33600
Db	3301	ggtaagctcttcgcgagatctcaaaaactggccagagcgaaagtgcgaataatgcgaagatgc	33600
QY	3361	ltaaaccttccaacctgacacgaacccccacgacgtccagtcagtcgtcgaacgacg	34200
Db	3361	ltaaaccttccaacctgacacgaacccccacgacgtccagtcagtcgtcgaacgacg	34200
QY	3421	agtgacctgcagcgcaaggagagagaaagaaagagagatcagtgctatgagccaagaaag	34800
Db	3421	agtgacctgcagcgcaaggagagagaaagaaagagagatcagtgctatgagccaagaaag	34800
QY	3481	acagatctaatccaaggcgcaatgggaattatgacccaagggcttatagtcacagtgatcccg	35400
Db	3481	acagatctaatccaaggcgcaatgggaattatgacccaagggcttatagtcacagtgatcccg	35400
QY	3541	gtctcagaagagcgaggtctatactgtcggggggaaaaaatacagttccaagggaaagtccggaga	36000
Db	3541	gtctcagaagagcgaggtctatactgtcggggggaaaaaatacagttccaagggaaagtccggaga	36000
QY	3601	ccctgattctcaatactctatttctcctttaacaagctcgagtaactctcgagccaagctcaag	36600
Db	3601	ccctgattctcaatactctatttctcctttaacaagctcgagtaactctcgagccaagctcaag	36600
QY	3661	gtatgaactgagggctgtcaagaatcactagttctccctcttaaggaaacctcttctcgtc	37200
Db	3661	gtatgaactgagggctgtcaagaatcactagttctccctcttaaggaaacctcttctcgtc	37200
QY	3721	ggagttagcgacacaaaggggcaatccggtctcctttaacaggaagaaaaatcctcaagag	37800
Db	3721	ggagttagcgacacaaaggggcaatccggtctcctttaacaggaagaaaaatcctcaagag	37800
QY	3781	taaaagccaaaagaattcaaaccttaggtctctgcgactataatgtgttttttggaaaat	38400
Db	3781	taaaagccaaaagaattcaaaccttaggtctctgcgactataatgtgttttttggaaaat	38400
QY	3841	cattctcagcgagtgtcttaactctgcgattccaagaaatgagagctgtaacctcttgcgcagt	39000
Db	3841	cattctcagcgagtgtcttaactctgcgattccaagaaatgagagctgtaacctcttgcgcagt	39000
QY	3901	taaacaaacacaccagctgtgtaaatgtctcaagtctcaagcttaactgcgaagacaaatcaaa-	39599
Db	3901	taaacaaacacaccagctgtgtaaatgtctcaagtctcaagcttaactgcgaagacaaatcaaa-	39600
QY	3960	aagaaatgaaatccttagagcaaaaactgtttctccaacatcgagagtgagtcctgcaggg	4019
Db	3961	aagaaatgaaatccttagagcaaaaactgtttctccaac-ctgagagtgagtcctgcaggg	4019
QY	4020	caagtttgaaatatttaactctcaacaagtatttcgacaacgtgtgttggaataaaacaataag	4079
Db	4020	caagtttgaaatatttaactctcaacaagtatttcgacaacgtgtgttggaataaaacaataag	4079
QY	4080	ttgctccaagagcaatcattctccaagtgtgcataacgacgtgtgttggaataaaacaataag	4139
Db	4080	ttgctccaagagcaatcattctccaagtgtgcataacgacgtgtgttggaataaaacaataag	4139
QY	4140	tttatgtgcatatgccaatttgcttttcttctccttcttgggttataatgttaagca	4199
Db	4140	tttatgtgcatatgccaatttgcttttcttctccttcttgggttataatgttaagca	4199
QY	4200	ggagattttaaactaaacgctcccaagaagccttggaatttgaatggagaaataataactc	4259
Db	4200	ggagattttaaactaaacgctcccaagaagccttggaatttgaatggagaaataataactc	4259
QY	4260	ttgtatttacaacctctaaactaaatttaacaatttatccaatttcgagatgagccataa	4319

```

Db 4260 ttaatttaccaccttctaactaaatttaacatttatttccattgtaggaatagagcctaa 4319
Oy 4320 acccaaaagtgtaataacaaataccgtgatttgtaattccaaatagaatcacagacat 4379
Db 4320 acccaaaagtgtaataacaaataccgtgatttgtaattccaaatagaatcacagacat 4379
Oy 4380 tttaataataataacgtgtgttcagataagtgtagtaagtgaaatatttataactaaact 4439
Db 4380 tttaataataataacgtgtgttcagataagtgtagtaagtgaaatatttataactaaact 4439
Oy 4440 accttgaataatagaacctcccgctgagactgtgttttaacatataaataaacatgtttaa 4499
Db 4440 accttgaataatagaacctcccgctgagactgtgttttaacatataaataaacatgtttaa 4499
Oy 4500 aatttgaataatttgaataacataattcattatcaattgttccctgtgaatacattatc 4559
Db 4500 aatttgaataatttgaataacataattcattatcaattgttccctgtgaatacattatc 4559
Oy 4560 tatataattgaaaaacatcttctgagaagaagttcccgagatttacaacaatgaggttcttg 4619
Db 4560 tatataattgaaaaacatcttctgagaagaagttcccgagatttacaacaatgaggttcttg 4619
Oy 4620 gcatgacacacacacagagtaagaactgatttgaagagctaaacattgacattgtgctcagag 4679
Db 4620 gcatgacacacacacagagtaagaactgatttgaagagctaaacattgacattgtgctcagag 4679
Oy 4680 atgcaagaactgaaatttgaaagaagctccccaagaatacacaggtgttlttaagaagaggt 4739
Db 4680 atgcaagaactgaaatttgaaagaagctccccaagaatacacaggtgttlttaagaagaggt 4739
Oy 4740 gaagggggaatactgcgcgtctcttaaggaaatgctcctccctggaagccctgtaggttgctgt 4799
Db 4740 gaagggggaatactgcgcgtctcttaaggaaatgctcctccctggaagccctgtaggttgctgt 4799
Oy 4800 ccttggtctcgtgctggtgtgttatttctctcgtccctgtagcagctcttaagaagagctgt 4859
Db 4800 ccttggtctcgtgctggtgtgttatttctctcgtccctgtagcagctcttaagaagagctgt 4859
Oy 4860 tggatctccagctcctctgcatagtgctgtagcagatgtaggttctcaatgagtttgcaaga 4919
Db 4860 tggatctccagctcctctgcatagtgctgtagcagatgtaggttctcaatgagtttgcaaga 4919
Oy 4920 gtgaaatggaataataaacttgaaatataatactgtgtgaataacagacacagctgagctgt 4979
Db 4920 gtgaaatggaataataaacttgaaatataatactgtgtgaataacagacacagctgagctgt 4979
Oy 4980 gtgtgaagtggtgtgtagctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5039
Db 4980 gtgtgaagtggtgtgtagctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5039
Oy 5040 ataggaactatattctgtggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5099
Db 5040 ataggaactatattctgtggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5099
Oy 5100 ccaaaacagacttctggaaggttatttcttaagaattctgtcgtggaaggttgaagcaaccc 5159
Db 5100 ccaaaacagacttctggaaggttatttcttaagaattctgtcgtggaaggttgaagcaaccc 5159
Oy 5160 cctgtgtgacagagcccaacagctcctcaagtgtagcactgtcttccccaatgaaaggtc 5219
Db 5160 cctgtgtgacagagcccaacagctcctcaagtgtagcactgtcttccccaatgaaaggtc 5219
Oy 5220 ggtcctcccaatataataaactctctgagagctcgtggaatgtagcgaagaagccacccat 5279
Db 5220 ggtcctcccaatataataaactctctgagagctcgtggaatgtagcgaagaagccacccat 5279
Oy 5280 ccagggacacctctgacagcagc 5300
Db 5280 ccagggacacctctgacagcagc 5300

```

RESULT 9

```

AAV51367
ID AAV51367 standard; DNA; 5300 BP.
XX AC AAV51367;
XX DT 27-OCT-1998 (first entry)
XX DE Human TIGR promoter variant TIGRsv1 DNA.
XX KW TIGR: trabecular meshwork induced glucocorticoid response protein; human;
XX KW diagnosis: glaucoma; polymorphism; steroid sensitivity; mutant; ss.
XX OS Homo sapiens.
XX SX Synthetic.
XX FH Key
FH mutation location/Qualifiers
FH 4406 /*tag- a
FH 4406 /note= "Wild-type A is replaced by G"
FT FT
FT FT
XX PN M09832850-A1.
XX PD 30-JUL-1998.
XX PF 09-JAN-1998; 98MO-US00468.
XX PR 26-SEP-1997; 97US-0938669.
XX PR 28-JAN-1997; 97US-0791154.
XX PA (REGC ) UNIV CALIFORNIA.
XX PI Chen H, Chen P, Nguyen TD, Polansky JR;
XX DR WPI; 1998-427946/36.
XX PT Use of TIGR nucleic acid sequences - used for, e.g. developing
XX products for diagnosis, prognosis and treatment of glaucoma
XX PS Disclosure: Fig 2; 105pp; English.
XX CC This sequence is a trabecular meshwork induced glucocorticoid response
XX CC protein (TIGR) promoter variant, TIGRsv1, which is used in a method for
XX CC diagnosing glaucoma in a patient. The method involves the detection of
XX CC polymorphisms whose presence is predictive of a mutation affecting TIGR
XX CC response in the patient and can be diagnostic of glaucoma or steroid
XX CC sensitivity. Base substitutions and base additions upstream of and within
XX CC TIGR exons can also be used to diagnose glaucoma.
XX SO Sequence 5300 BP; 1481 A; 1152 C; 1236 G; 1431 T; 0 other;

Query Match 85.5%; Score 5273.8; DB 19; Length 5300;
Best local Similarity 99.9%; Pred. NO. 0;
Matches 5297; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

```

```

Oy 1 attcttgcagtttactcaggggtattatgaataatgaatataccaatgtgaaag 60
Db 1 attcttgcagtttactcaggggtattatgaataatgaatataccaatgtgaaag 60
Oy 61 tccataaacgtatagcctccatctcgagtgtatgtcttggcaggaatgaagaatca 120
Db 61 tccataaacgtatagcctccatctcgagtgtatgtcttggcaggaatgaagaatca 120
Oy 121 ggaagaaggagtatccagcgttagcgaagtgtccagagctgtctgtcttatttagtga 180
Db 121 ggaagaaggagtatccagcgttagcgaagtgtccagagctgtctgtcttatttagtga 180
Oy 181 cagatgtgtcctcgacagaagcattcttcaggaataacatcaactccaatatgttaatc 240
Db 181 cagatgtgtcctcgacagaagcattcttcaggaataacatcaactccaatatgttaatc 240
Oy 241 catcaaacagagcctaagaacaggaatgagatgagcacttgcacaggaagaaatgacag 300
Db 241 catcaaacagagcctaagaacaggaatgagatgagcacttgcacaggaagaaatgacag 300

```

Db 241 catcaaacagagctaaagaaacaggaatgagatgagcacttgcccaaggaaaatgccaag 300
Qy 301 gagagcaaaataatgataagaaaataaactttcccttgctttaatttcagggaaaatg 360
Db 301 gagagcaaaataatgataagaaaataaactttcccttgctttaatttcagggaaaatg 360
Qy 361 atgagagccaaaataatgataagaaaataaacttcagaaacagatgattccaaatg 420
Db 361 atgagagccaaaataatgataagaaaataaacttcagaaacagatgattccaaatg 420
Qy 421 taattaaatacttgcttccttgaggaaagacccccaatgctgagctgagtggtgaaatggaa 480
Db 421 taattaaatacttgcttccttgaggaaagacccccaatgctgagctgagtggtgaaatggaa 480
Qy 481 aaacctgcaaaaagcaatgatactgatacccaagtgagatataattttaaaacccagat 540
Db 481 aaacctgcaaaaagcaatgatactgatacccaagtgagatataattttaaaacccagat 540
Qy 541 ggcatacctctggggggagagcttcagggagatcattgtaagcaaaaggacatacaataac 600
Db 541 ggcatacctctggggggagagcttcagggagatcattgtaagcaaaaggacatacaataac 600
Qy 601 agcaaaaatacaaaaatcccgcaaaatgagaggaagaaatgagagctgggaaagcttcataac 660
Db 601 agcaaaaatacaaaaatcccgcaaaatgagaggaagaaatgagagagctgggaaagcttcataac 660
Qy 661 agtgatctagagagctgagcaatgctgcgaacacccctccgctataaccagggagacaaaaa 720
Db 661 agtgatctagagagagctgagcaatgctgcgaacacccctccgctataaccagggagacaaaaa 720
Qy 721 atgagcttgaggcttaagagcttgagactttaagggaaataatgaaaaacttgagagcaaaaaa 780
Db 721 atgagcttgaggcttaagagcttgagactttaagggaaataatgaaaaacttgagagcaaaaaa 780
Qy 781 gacatggttaaaaagagacacagaaacatctgtaagccttcacaaagagagagctccctcagca 840
Db 781 gacatggttaaaaagagacacagaaacatctgtaagccttcacaaagagagagctccctcagca 840
Qy 841 gggagccctgagagcatttgcccttaaggaagcagctttccttaaggaaccttaagaaactc 900
Db 841 gggagccctgagagcatttgcccttaaggaagcagctttccttaaggaaccttaagaaactc 900
Qy 901 ctgaaaagacatagaattttaaacacttttaagtaataaacaataatgcgtatgcaataacg 960
Db 901 ctgaaaagacatagaattttaaacacttttaagtaataaacaataatgcgtatgcaataacg 960
Qy 961 cttaagaacatggtgtcccaattttaaaagtcagagacatacaaggaataagctgtcccaactcc 1020
Db 961 cttaagaacatggtgtcccaattttaaaagtcagagacatacaaggaataagctgtcccaactcc 1020
Qy 1021 ggaataggtcaagaataatcaatagaataatcaatgctgtcccaactcaacttttcagaaatgatac 1080
Db 1021 ggaataggtcaagaataatcaatagaataatcaatgctgtcccaactcaacttttcagaaatgatac 1080
Qy 1081 tctcaatagcccttcacacagagcccgatgtctctgtaagcttaaacacacacacacacacacaa 1140
Db 1081 tctcaatagcccttcacacagagcccgatgtctctgtaagcttaaacacacacacacacacacaa 1140
Qy 1141 gttgcctcaaaccaatgtttaaagctgtcaatcccaatagatgccatatacaaatgcaacccctccc 1200
Db 1141 gttgcctcaaaccaatgtttaaagctgtcaatcccaatagatgccatatacaaatgcaacccctccc 1200
Qy 1201 tctgtagagcccaatcccgcttcacagagaatctcccccactctagactcttgcaatcaagatgt 1260
Db 1201 tctgtagagcccaatcccgcttcacagagaatctcccccactctagactcttgcaatcaagatgt 1260
Qy 1261 taacagccagaagaatctccgttaagggtagaggtctgtgtcttaacacctaaccgtatgtctaac 1320
Db 1261 taacagccagaagaatctccgttaagggtagaggtctgtgtcttaacacctaaccgtatgtctaac 1320
Qy 1321 aacctgagctcaatctgcaaacctctgctccccaaggtttcaagcaattctccctgtcccaagctcc 1380
Db 1321 aacctgagctcaatctgcaaacctctgctccccaaggtttcaagcaattctccctgtcccaagctcc 1380

Qy 1381 cgcgtagcttgagactacagcgacagcccgctaattttctgatactgttaagtaagatggg 1440
Db 1381 cgcgtagcttgagactacagcgacagcccgctaattttctgatactgtttagtaagatggg 1440
Qy 1441 gtttcaacataatagcccgctgtgcttgaactccctgaacctcaggtgataccacacctc 1500
Db 1441 gtttcaacataatagcccgctgtgcttgaactccctgaacctcaggtgataccacacctc 1500
Qy 1501 agccttcctaaagtctgagggttacaagcatgatacccgcccgccgaaggttcaagttg 1560
Db 1501 agccttcctaaagtctgagggttacaagcatgatacccgcccgccgaaggttcaagttg 1560
Qy 1561 ttaataaggaataacttgaaatgttactaaacacaaacagggaaaacagacaaaagcgttga 1620
Db 1561 ttaataaggaataacttgaaatgttactaaacacaaacagggaaaacagacaaaagcgttga 1620
Qy 1621 taattcaaggaatctctgggaatgggaatggtgcataagctgctgctgactagctccagac 1680
Db 1621 taattcaaggaatctctgggaatgggaatggtgcataagctgctgctgactagctccagac 1680
Qy 1681 cacttgctccatcaactttctccctcatccatcttcaaggttcaaggttacaatttat 1740
Db 1681 cacttgctccatcaactttctccctcatccatcttcaaggttcaaggttacaatttat 1740
Qy 1741 caacatgcttttggtgaaagcctccacatcgttactgaaataaagatatataataactag 1800
Db 1741 caacatgcttttggtgaaagcctccacatcgttactgaaataaagatatataataactag 1800
Qy 1801 ttcacatttgaggcactctgtgtgtgtatagggagggagacatacccaagactcct 1860
Db 1801 ttcacatttgaggcactctgtgtgtgtatagggagggagacatacccaagactcct 1860
Qy 1861 tgaagcccccggagaggttctctccagcttgagggaacccctgcaagacacccgggttc 1920
Db 1861 tgaagcccccggagaggttctctccagcttgagggaacccctgcaagacacccgggttc 1920
Qy 1921 tgggtgtctctgaaacacctgccaagcccgctgcaactgtgtgttgttatacactctaaag 1980
Db 1921 tgggtgtctctgaaacacctgccaagcccgctgcaactgtgtgttgttatacactctaaag 1980
Qy 1981 gacctgtgcttctctatcttctgtgtgatacctgcttcaatccaagacatcttgacaatt 2040
Db 1981 gacctgtgcttctctatcttctgtgtgatacctgcttcaatccaagacatcttgacaatt 2040
Qy 2041 tatgtgatactataatctgcagacacccagagacaaatgtgtgaagaaagagctacatgc 2100
Db 2041 tatgtgatactataatctgcagacacccagagacaaatgtgtgaagaaagagctacatgc 2100
Qy 2101 cctaacctctggtgaggtgagatcttctcaatggaagcgtgcagaagaaaataataagcca 2160
Db 2101 cctaacctctggtgaggtgagatcttctcaatggaagcgtgcagaagaaaataataagcca 2160
Qy 2161 gccaaacttaaacccaggtgtgtgaagaaagaaataaacacactcttgaaagaattgtgcgc 2220
Db 2161 gccaaacttaaacccaggtgtgtgaagaaagaaataaacacactcttgaaagaattgtgcgc 2220
Qy 2221 agcatcccttaacaaagagcaactcccttaagcgccctgtgtgcttcaatgctgcccgaag 2280
Db 2221 agcatcccttaacaaagagcaactcccttaagcgccctgtgtgcttcaatgctgcccgaag 2280
Qy 2281 ccccaagcccgagcttctccaagcctcctcctcaatcgaatcgaacagcgtcgcagctgcgct 2340
Db 2281 ccccaagcccgagcttctccaagcctcctcctcaatcgaatcgaacagcgtcgcagctgcgct 2340
Qy 2341 gctctgcttcccggtaatctgctgtgatactgagctgaggaactccttgctccagact 2400
Db 2341 gctctgcttcccggtaatctgctgtgatactgagctgaggaactccttgctccagact 2400
Qy 2401 ccagaagaagaaatggaagggagaactagttcaagggagaatcttgaggggagaagtgcttc 2460
Db 2401 ccagaagaagaaatggaagggagaactagttcaagggagaatcttgaggggagaagtgcttc 2460

OY	2461	ctcagagagaaagagvgcctccacagctccagagagaaatctccagagagvgvggagactcgacagagag	2520
Dd	2461	ctcagagagaaagagvggcctccacagctccagagagaaatctccagagagvgvggagactcgacagagag	2520
OY	2521	tcgagagagcctcgagvgcctcgagvgvgvgctcgagaaagcagagagvgcgagaaagagcagagcgagaa	2580
Dd	2521	tcgagagagagcctcgagvgcctcgagvgvgvgctcgagaaagcagagagvgcgagaaagagcagagcgagaa	2580
OY	2581	gctcgccagagatgctcagatgctctcgacagvggctcgagagvgcttcctcgatctcgctctcgagac	2640
Dd	2581	gctcgccagagatgctcagatgctctcgacagvggctcgagagvgcttcctcgatctcgctctcgagac	2640
OY	2641	ctcttcctctctctctcgctctcgagagagagagagagctctatctcagagagctcgacttc	2700
Dd	2641	ctcttcctctctctctcgctctcgagagagagagagagctctatctcagagagagctcgacttc	2700
OY	2701	actaagagcagagctgctaaataatctcagagvgctgagatgvgcttcctctcagagagagccttat	2760
Dd	2701	actaagagcagagctgctaaataatctcagagvgctgagatgvgcttcctctcagagagagccttat	2760
OY	2761	ctaa tcgagaaatactagagagagagagctccatctccctaaagccgtctaatctcagagagagagagagac	2820
Dd	2761	ctaa tcgagaaatactagagagagagagagctccatctccctaaagccgtctaatctcagagagagagagac	2820
OY	2821	tcgagagctctctctctcagatgctctctcgagagactcagagccctgctgctgagactcgactta	2880
Dd	2821	tcgagagctctctctctcagatgctctctcgagagactcagagccctgctgctgagactcgactta	2880
OY	2881	tcgcaagagcagtcgagaaatacccttgagatacagagagagctctctctctctcgctctcgagcat	2940
Dd	2881	tcgcaagagcagtcgagaaatacccttgagatacagagagagctctctctctctcgctctcgagcat	2940
OY	2941	ggtctgagctcgctcgagacagtcgagagagagctgctccctccctcccttcgagagagctctctcgact	3000
Dd	2941	ggtctgagctcgctcgagacagtcgagagagagctgctccctccctcccttcgagagagctctctcgact	3000
OY	3001	actaagagacccctcgacagctccctcgatctctcgctgagaaactccctcgatctctctcgctgagaggg	3060
Dd	3001	actaagagacccctcgacagctccctcgatctctcgctgagaaactccctcgatctctctcgctgagaggg	3060
OY	3061	ggaatgctcgagagvggagagagagagagagcctcgagagcagctcgagagcagagagvggctcgagag	3120
Dd	3061	ggaatgctcgagagvggagagagagagagagcctcgagagcagctcgagagcagagagvggctcgagag	3120
OY	3121	ggaacagagaaagcagagcagagagcctcgagctcgacacagctccctacatcgatcagacagctcgaactc	3180
Dd	3121	ggaacagagaaagcagagcagagagcctcgagctcgacacagctccctacatcgatcagacagctcgaactc	3180
OY	3181	cagagacagagagacacacatgctctcagagaaagctctcaactgaaccccaacagcscacatcttccct	3240
Dd	3181	cagagacagagagacacacatgctctcagagaaagctctcaactgaaccccaacagcscacatcttccct	3240
OY	3241	ctccctaaagcatagacaaatgagcatcttcgacaaataacaaaagaaatgagagagcttaactggtc	3300
Dd	3241	ctccctaaagcatagacaaatgagcatcttcgacaaataacaaaagaaatgagagagcttaactggtc	3300
OY	3301	ggctgagctcttcgagcagatctcgaataaataacttcgagacagagctcgagaaagtcgacagagatg	3360
Dd	3301	ggctgagctcttcgagcagatctcgaataaataacttcgagacagagctcgagaaagtcgacagagatg	3360
OY	3361	ctaaactctctccacctcgacacagacacccacagcctcagacagctgagactcgctcgacagcagag	3420
Dd	3361	ctaaactctctccacccctgacacagacacccacagcctcagacagctgagactcgctcgacagcagag	3420
OY	3421	agtcgacactcgacagcagvggagagagagaaagaaagagagatgctctgagcagagaaag	3480
Dd	3421	agtcgacactcgacagcagvggagagagagaaagaaagagagatgctctgagcagagaaag	3480
OY	3481	acagatctcaatctcaagagggcagtcgagaaatctaacacagagvgctctctcagactcgagacccg	3540
Dd	3481	acagatctcaatctcaagagggcagtcgagaaatctaacacagagvgctctctcagactcgagacccg	3540
OY	3541	gctctagagagcagagvgctctatctgctgvggvggaaataatacagctctcagagvgagctcgagagaa	3600

Dh	354.1	gltcctaggaagcaggcgtacatactctgcygggggagaaaaatcaagttccaaagggaagccgggaga	3600
Oy	360.1	ccgtatcttcaatctctatcttctcccttacaagctcgagtaactctgagcaagtcacaag	3660
Dh	360.1	ccgtatcttcaatctctatcttctcccttacaagctcgagtaactctgagcaagtcacaag	3660
Oy	366.1	gtagtaactgagagctgtaagaatacttagtctcccttaataaggaaactcttctctgtc	3720
Dh	366.1	gtagtaactgagagctgtaagaatacttagtctcccttaataaggaaactcttctctgtc	3720
Oy	372.1	ggagctgagcgacaaagggaatcccgcttctctttaacgggagaaaacattctctaagag	3780
Dh	372.1	ggagctgagcgacaaagggaatcccgcttctctttaacgggagaaaacattctctaagag	3780
Oy	378.1	taaaagcaaaacagaattcaagcccttaggtctctgctgacataatgattggttttttgaanaat	3840
Dh	378.1	taaaagcaaaacagaattcaagcccttaggtctctgctgacataatgattggttttttgaanaat	3840
Oy	384.1	catttcagcgatgttttaatactctgatactcagaataagagactagtaacctgtgtctagctg	3900
Dh	384.1	catttcagcgatgttttaatactctgatactcagaataagagactagtaacctgtgtctagctg	3900
Oy	390.1	taaaacaaacacccagctgtgtaaatgctctcaagttcaggcttaactgacagaaaccaataaa	3959
Dh	390.1	taaaacaaacacccagctgtgtaaatgctctcaagttcaggcttaactgacagaaaccaataa	3960
Oy	396.0	aagaaatgaatccttttagaagaaaacttgcttctccacactctggagtgagctgtcgagag	4019
Dh	396.1	aagaaatgaatccttttagaagaaaacttgcttctccacactctggagtgagctgtcgagag	4019
Oy	4020	cagcttggaaaatatttctccacaaagtatgaaacactgtgtctgtgtgataacaacaataag	4079
Dh	4020	cagcttggaaaatatttctccacaaagtatgaaacactgtgtgtgtgtatatacaacaataag	4079
Oy	4080	tttgctcaaaaggcaatcaataattcaagctggctbaaagtaactctcgacagtttggtata	4139
Dh	4080	tttgctcaaaaggcaatcaataattcaagctggctbaaagtaactctcgacagtttggtata	4139
Oy	4140	tttttttggtactgtggcaatttgctcttctgtttttcttcccttggtgttatataatgtaaaaga	4199
Dh	4140	tttttttggtactgtggcaatttgctcttctgtttttcttcccttggtgttatataatgtaaaaga	4199
Oy	4200	gggatttaataccacagctccagaagaagcctgtgaattttgaaatgagagaaaataatacatct	4259
Dh	4200	gggatttaataccacagctccagaagaagcctgtgaattttgaaatgagagaaaataatacatct	4259
Oy	4260	ttgctttacacacttctaaactaaatttaacatttatatccatctgcygaatagagccataa	4319
Dh	4260	ttgctttacacacttctaaactaaatttaacatttatatccatctgcygaatagagccataa	4319
Oy	4320	actcaaaagtgtgtaataacagtaacctgtgattttgtgataccaatagaataatcaagaaat	4379
Dh	4320	actcaaaagtgtgtaataacagtaacctgtgattttgtgataccaatagaataatcaagaaat	4379
Oy	4380	tttaatacataatcaagtctgtgcagatacagctgtgtaagtgaaatctataactcaaaact	4439
Dh	4380	tttaatacataatcaagtctgtgcagatacagctgtgtaagtgaaatctataactcaaaact	4439
Oy	4440	acttggaataatagacactccctgcgtctggaatctgttctttaacataatataaacaatgttaa	4499
Dh	4440	acttggaataatagacactccctgcgtctggaatctgttctttaacataatataaacaatgttaa	4499
Oy	4500	aatttttgataattttgtaaaacataatccaattatcaatctgttcccttgaatcataatct	4559
Dh	4500	aatttttgataattttgtaaaacataatccaattatcaatctgttcccttgaatcataatct	4559
Oy	4560	tataataattgaaaacactcttctcgagagagaggtcccccagatttccacaaatgaggttcttg	4619
Dh	4560	tataataattgaaaacactcttctcgagagagaggtcccccagatttccacaaatgaggttcttg	4619
Oy	4620	gcatgtgcaacacacagatgaagaactgatttagaggctaaactgacatctggtgtgctgag	4679

```

Db 4620 gcatgcacacacacagagtaagaaatgatttagaggtcaacatgtgacattgtgctcag 4679
Oy 4680 atgaaagacgaaatctgtaaaagtcctcccaagaatacaagctgtcttaagctagggt 4739
Db 4680 atgaaagacgaaatctgtaaaagtcctcccaagaatacaagctgtcttaagctagggt 4739
Oy 4740 gaaggaggaaatctgcgcctctctatagaaatgctctccctggagcctggttaggtgtct 4739
Db 4740 gaaggaggaaatctgcgcctctctatagaaatgctctccctggagcctggttaggtgtct 4739
Oy 4800 cctgtgtctcgtgcgtgcgtctctatctctcctgcctgcctgcctgcctgcctgcctgc 4859
Db 4800 cctgtgtctcgtgcgtgcgtctctatctctcctgcctgcctgcctgcctgcctgcctgc 4859
Oy 4860 tggatctccagcttctctagcatagtgctgcgtgcacagtgcaaggtctcctaagtttgca 4919
Db 4860 tggatctccagcttctctagcatagtgctgcgtgcacagtgcaaggtctcctaagtttgca 4919
Oy 4920 gtgatgtgaaataaactagaaataatctctgttgaatacagcgcacacagtagtctctg 4979
Db 4920 gtgatgtgaaataaactagaaataatctctgttgaatacagcgcacacagtagtctctg 4979
Oy 4980 gtgtgaagtgctgtacgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5039
Db 4980 gtgtgaagtgctgtacgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5039
Oy 5040 ataggaaactcttctgtgggtatggtgtgcataaattggagtgctctcttcttaaaagaact 5099
Db 5040 ataggaaactcttctgtgggtatggtgtgcataaattggagtgctctcttcttaaaagaact 5099
Oy 5100 ccaaaacagactctctgaaagctctcttcttaagaactctgtctgcagcgtgaaaggcaacc 5159
Db 5100 ccaaaacagactctctgaaagctctcttcttaagaactctgtctgcagcgtgaaaggcaacc 5159
Oy 5160 cccctgtgcacagcgcacccacagcctcaagctgtgcacacctgtctctcccatgaaaggct 5219
Db 5160 cccctgtgcacagcgcacccacagcctcaagctgtgcacacctgtctctcccatgaaaggct 5219
Oy 5220 ggtctcccgatataataaactctctgcagcgtgcagcgtgcagcgtgcagcgtgcagcgtgc 5279
Db 5220 ggtctcccgatataataaactctctgcagcgtgcagcgtgcagcgtgcagcgtgcagcgtgc 5279
Oy 5280 ccagagcactctcagcagcagc 5300
Db 5280 ccagagcactctcagcagcagc 5300

```

RESULT 10
 AAA57511
 ID AAA57511 standard: DNA: 5271 BP.
 AC AAA57511:
 XX 20-OCT-2000 (first entry)
 DT
 XX
 DE A TIGR (trabecular meshwork inducible glucocorticoid receptor) promoter.
 XX
 XX TIGR: trabecular meshwork inducible glucocorticoid receptor; promoter;
 KW glaucoma; steroid sensitivity; progressive ocular hypertension;
 KW vision loss; ss.
 XX
 OS Homo sapiens.
 XX
 XX
 XX Key Location/Qualifiers
 FH mutation replace (4337, G)
 FT /*tag= a
 FT /*note= "TIGRmt1 mutant"
 FT mutation replace (4950, T)
 FT /*tag= b
 FT /*note= "TIGRmt2 mutant"
 FT mutation 4998
 FT /*tag= c
 FT /*note= "TIGR added to produce TIGRmt3 mutant"

```

FT mutation replace (4256, G)
FT /*tag= d
FT /*note= "TIGRmt4 mutant"
FT mutation replace (5113, C)
FT /*tag= e
FT /*note= "TIGRmt11 mutant"
PN WO200042220-A1.
PD 20-JUL-2000.
XX
XX 11-JAN-2000; 2000MO-US00559.
XX
XX 11-JAN-1999; 99US-0227881.
XX
XX 07-MAY-1999; 99US-0306828.
XX
XX (REGC ) UNIV CALIFORNIA.
XX
XX PI Nguyen TD, Polansky JR, Chen P, Chen H;
XX WPI; 2000-491060/43.
XX
XX DR
XX
XX PT Diagnosis, prognosis and treatment of glaucoma, based on detecting
XX PT specific polymorphisms in the promoter of the trabecular meshwork
XX PT inducible glucocorticoid receptor gene -
XX
XX PS claim 79; Page 117-119; 122pp; English.
XX
XX CC The present sequence represents a TIGR (trabecular meshwork inducible
XX CC glucocorticoid receptor) promoter, isolated from an individual
XX CC without glaucoma. The specification describes a method for the diagnosis,
XX CC prognosis and treatment of glaucoma, based on detecting specific
XX CC polymorphisms in the promoter of the TIGR gene. The method is used for
XX CC diagnosis and prognosis of glaucoma (of all types), steroid sensitivity
XX CC and progressive ocular hypertension that leads to loss of vision.
XX CC Glaucoma can be treated by administering an agent that binds to
XX CC cis-acting elements within the TIGR promoter. The TIGR promoter (or
XX CC other regulatory regions) can be used to express homologous or
XX CC heterologous genes, particularly for tissue-specific expression of
XX CC therapeutic transgenes for treating glaucoma, also to generate
XX CC transgenic animals and in screening for compounds (specific modulators)
XX CC with diagnostic or therapeutic potential. Fragments of the TIGR
XX CC sequence can be used as amplification primers or probes, e.g. for
XX CC isolating related sequences in non-human animals.
XX
XX SQ Sequence 5271 BP; 1476 A; 1138 C; 1231 G; 1426 T; 0 other;

```

Query Match 85.4%; Score 5269.4; DB 21; Length 5271;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 5270; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

Oy 1 atcttgcagtttaccctcagggcgtatataagaaatgataaacaatgtgtgaag 60
Db 1 atcttgcagtttaccctcagggcgtatataagaaatgataaacaatgtgtgaag 60
Oy 61 tccataaacgtatagcctcattcgtatgtctcttggcaggaatgataaagaatca 120
Db 61 tccataaacgtatagcctcattcgtatgtctcttggcaggaatgataaagaatca 120
Oy 121 ggaagaagagatatacagcttagcagaagtgtccaggctgtgtcgtctatttagta 180
Db 121 ggaagaagagatatacagcttagcagaagtgtccaggctgtgtcgtctatttagta 180
Oy 181 cagatgtgtctctcagaaagctattcttggagaaacatcacatccataatgtaaac 240
Db 181 cagatgtgtctctcagaaagctattcttggagaaacatcacatccataatgtaaac 240
Oy 241 catcaaacagagctaaagaacaggaatgagaatggcacttcccaagaaaatgccaag 300
Db 241 catcaaacagagctaaagaacaggaatgagaatggcacttcccaagaaaatgccaag 300
Oy 301 gagagcaaatatgatgaaaataaacttcccttgttttaatttcaggaanaaatg 360

```

Db 301 gagagcaaatcatgataagaaaataaactcttcctctgttttaattctcaggaanaatgt 360
 QY 361 atgagagcaaaaatacatgataagaaaacaagctcagaanaaagaatgtctccaattgg 420
 Db 361 atgagagcaaaaatacatgataagaaaacaagctcagaanaaagaatgtctccaattgg 420
 QY 421 taattcaagtaattctgtctctggtggaagagactccaatgttgagcttgatgggaaaatggaa 480
 Db 421 taattcaagtaattctgtctctggtggaagagactccaatgttgagcttgatgggaaaatggaa 480
 QY 481 aaacgctcaaaagcatgatacctgatacaga tcccaagtgatattatattttaaaaaacggat 540
 Db 481 aaacgctcaaaagcatgatacctgatacaga tcccaagtgatattatattttaaaaaacggat 540
 QY 541 ggcatacctctggggagagcaagttcagaagaatgatagtctagcaaaaggacataacaataac 600
 Db 541 ggcatacctctggggagagcaagttcagaagaatgatagtctagcaaaaggacataacaataac 600
 QY 601 agcaaaaaataaaattccgcgaatgcaaggagaanaaavgggagctgggaaaagctttcataac 660
 Db 601 agcaaaaaataaaattccgcgaatgcaaggagaanaaavgggagctgggaaaagctttcataac 660
 QY 661 agtgatctagagcagcttgacacatgcttcgacaacacctcccgctcatacagaaggacaacaaa 720
 Db 661 agtgatctagagcagcttgacacatgcttcgacaacacctcccgctcatacagaaggacaacaaa 720
 QY 721 atctgactggctcagagccttgagactttcaaggagaaatactgaaaanaactgagagcaaaaacaaa 780
 Db 721 atctgactggctcagagccttgagactttcaaggagaaatactgaaaanaactgagagcaaaaacaaa 780
 QY 781 gaaatggtttaaaaggcaacagaacatctgtagacctcaaaagcagcagctgcccctcagca 840
 Db 781 gaaatggtttaaaaggcaacagaacatctgtagacctcaaaagcagcagctgcccctcagca 840
 QY 841 gggagccctggagacattgacctcttagagaaagccagcttctctaagaaatcctaagaaatc 900
 Db 841 gggagccctggagacattgacctcttagagaaagccagcttctctaagaaatcctaagaaatc 900
 QY 901 ctgaaagaatcatgaaattcttaacacatcttaagtaaaaaaatactgcatatcatcag 960
 Db 901 ctgaaagaatcatgaaattcttaacacatcttaagtaaaaaaatactgcatatcatcag 960
 QY 961 tttagagaatgggtcccaattttaaaagtcaggaatacaagatataagttgcccagctcc 1020
 Db 961 tttagagaatgggtcccaattttaaaagtcaggaatacaagatataagttgcccagctcc 1020
 QY 1021 ggaataggctcagaataatcatagaaatcacctgtgtcccaatccataactttctcagaatgac 1080
 Db 1021 ggaataggctcagaataatcatagaaatcacctgtgtcccaatccataactttctcagaatgac 1080
 QY 1081 tgtcaatagccctcaacacagagccggaatgtctctgacctacaacacacatacaaccga 1140
 Db 1081 tgtcaatagccctcaacacagagccggaatgtctctgacctacaacacacatacaaccga 1140
 QY 1141 gtgcctcaaaacatgtttaagctgtcatctcagtaggtcccaattcaaaatgtgcaacctccc 1200
 Db 1141 gtgcctcaaaacatgtttaagctgtcatctcagtaggtcccaattcaaaatgtgcaacctccc 1200
 QY 1201 tgtgcaagcccatcccgctccaaggaagctcccccactctcagactctctgcatcagatgt 1260
 Db 1201 tgtgcaagcccatcccgctccaaggaagctcccccactctcagactctctgcatcagatgt 1260
 QY 1261 taacagcagaagaatcctgtagaggtgtagaggtctgtgtcttaacactacatcgtactac 1320
 Db 1261 taacagcagaagaatcctgtagaggtgtagaggtctgtgtcttaacactacatcgtactac 1320
 QY 1321 aacctgagctaacctgcaacctctgctccaggtctcaagcaatctcctgctccagctccc 1380
 Db 1321 aacctgagctaacctgcaacctctgctccaggtctcaagcaatctcctgctccagctccc 1380
 QY 1381 cgcgtagctgggaactaaagcgacagcccgctaaattcttgtaattgttaagtagagatgg 1440

Db 1381 cgcgtagctgggaactaacagcgacagcccgctaaattcttgtaattgttaagtagagatgg 1440
 QY 1441 gtctcaaccaattagcccgctgtgtcttgaaactctgaactcagtgataccaccactcc 1500
 Db 1441 gtctcaaccaattagcccgctgtgtcttgaaactctgaactcagtgataccaccactcc 1500
 QY 1501 agcctctaaagtgctgggaattacagacatgagtcacagccgcccgggcaaaaggtcagtg 1560
 Db 1501 agcctctaaagtgctgggaattacagacatgagtcacagccgcccgggcaaaaggtcagtg 1560
 QY 1561 ttaataaggaataactctgaaatgttactaaaccaaaggaagaaaacagaacaaatctgtga 1620
 Db 1561 ttaataaggaataactctgaaatgttactaaaccaaaggaagaaaacagaacaaatctgtga 1620
 QY 1621 taattcaaggatctctgggaatgggaaatggctgcaatgagctgctgctagctccagac 1680
 Db 1621 taattcaaggatctctgggaatgggaaatggctgcaatgagctgctgctagctccagac 1680
 QY 1681 caactgtccatcaactcttccctcatctcatcttccaagctaaagttaacatttat 1740
 Db 1681 caactgtccatcaactcttccctcatctcatcttccaagctaaagttaacatttat 1740
 QY 1741 caacatgcttctgtgtaagcctccacatcgttactgaataaagataacataaactag 1800
 Db 1741 caacatgcttctgtgtaagcctccacatcgttactgaataaagataacataaactag 1800
 QY 1801 ttccatttggtggccatctgtgtgtgtaagggagagggacatacccgagactcct 1860
 Db 1801 ttccatttggtggccatctgtgtgtgtaagggagagggacatacccgagactcct 1860
 QY 1861 tgaagcccccggagaggttctctctcagctggggagagcccttcagaagcagccgggtctc 1920
 Db 1861 tgaagcccccggagaggttctctctcagctggggagagcccttcagaagcagccgggtctc 1920
 QY 1921 tgggtgtctctgagcaactcggccagctggcaactgtgttctgtatacactctcag 1980
 Db 1921 tgggtgtctctgagcaactcggccagctggcaactgtgttctgtatacactctcag 1980
 QY 1981 gacctgtgtcttctatctctcgtgtgactcgttcatatccaaagcatctcaataat 2040
 Db 1981 gacctgtgtcttctatctctcgtgtgactcgttcatatccaaagcatctcaataat 2040
 QY 2041 tatggaataacttatatctgcagacacacagagaanaaavgtgagcaaaagctcagtc 2100
 Db 2041 tatggaataacttatatctgcagacacacagagaanaaavgtgagcaaaagctcagtc 2100
 QY 2101 cctacactctgtgtagagcttctcatatgaaagagctgtagaagaaatlaataagcca 2160
 Db 2101 cctacactctgtgtagagcttctcatatgaaagagctgtagaagaaatlaataagcca 2160
 QY 2161 gccaaattaaacccagtgctgaaagaaaggaataaaacacacatctgaaagaaatgtgcgc 2220
 Db 2161 gccaaattaaacccagtgctgaaagaaaggaataaaacacacatctgaaagaaatgtgcgc 2220
 QY 2221 agcatcccttiaaaggccacactccctcagcgcccccgtcgtccatcagctgcccggag 2280
 Db 2221 agcatcccttiaaaggccacactccctcagcgcccccgtcgtccatcagctgcccggag 2280
 QY 2281 cccccaagcccgagttcttccaagctctctctctcatcagatcaagcgctgtagctgagct 2340
 Db 2281 cccccaagcccgagttcttccaagctctctctctctcatcagatcaagcgctgtagctgagct 2340
 QY 2341 gctcgtctccggtgaatcgtctcgtgtgcatctgaagcttgagaaactccttgctcagagct 2400
 Db 2341 gctcgtctccggtgaatcgtctcgtgtgcatctgaagcttgagaaactccttgctcagagct 2400
 QY 2401 ccagaaaggaatctgagaggaagaaactagctcaagggagaaactctgagagggagctgtttc 2460
 Db 2401 ccagaaaggaatctgagagggagaaactagctcaagggagaaactctgagagggagctgtttc 2460
 QY 2461 ctcaaggggaaagggcctccacgltccagaggaatctccagaggtctggggagctcagaggg 2520
 Db 2461 ctcaaggggaaagggcctccacgltccagaggaatctccagaggtctggggagctcagaggg 2520

OY	2521	tgvggagcgcvgggcctvgagcggtgtgcgaaagcagaaagtcgaaagggcagctgaa	2580
Db	2521	tgvggagcgcvgggcctvgagcggtgtgcgaaagcagaaagtcgaaagggcagctgaa	2580
OY	2581	gctgcgccaagctgtctcaagtgctgtctcaaggggcctggagagtttccgtgtccctgtagc	2640
Db	2581	gctgcgccaagctgtctcaagtgctgtctcaaggggcctggagagtttccgtgtccctgtagc	2640
OY	2641	ctttctaatctctctcgtctggagggaggaagttcatctcaatgaaaggagctgagcttc	2700
Db	2641	ctttctaatctctctcgtctggagggaggaagttcatctcaatgaaaggagctgagcttc	2700
OY	2701	ataaagctcaagctgtttaaattccaaggtgtgcattgggttttctcttcagaaagccttat	2760
Db	2701	ataaagctcaagctgtttaaattccaaggtgtgcattgggttttctcttcagaaagccttat	2760
OY	2761	ctaaatgggaaataaaggaagagagatcattctctcaagcgcttaattcaacggaaagagtagac	2820
Db	2761	ctaaatgggaaataaaggaagagagatcattctctcaagcgcttaattcaacggaaagagtagac	2820
OY	2821	tggagctctctctctcaatgtctctcvgggcaactcaagccctvggtvggactgtgcta	2880
Db	2821	tggagctctctctctcaatgtctctcvgggcaactcaagccctvggtvggactgtgcta	2880
OY	2881	tgcgaagaacgctgcgaaaaaccttggaattcaagagagatcgtgttctctctgtctgcacat	2940
Db	2881	tgcgaagaacgctgcgaaaaaccttggaattcaagagagatcgtgttctctctgtctgcacat	2940
OY	2941	ggctggcctgtgcgaaacggctggcgaagtgtctctctccctcgggccaatgctctctgcct	3000
Db	2941	ggctggcctgtgcgaaacggctggcgaagtgtctctctccctcgggccaatgctctctgcct	3000
OY	3001	ataaagaaccttgcaagctctcgtgtgtctgtgaaaccttccctgtgattctctgtvgaggg	3060
Db	3001	ataaagaaccttgcaagctctcgtgtgtgtgaaaccttccctgtgattctctgtvgaggg	3060
OY	3061	ggatgtctggagaggggaggaagagcagagagcctggagaacattgagccaacggggaggttgaggg	3120
Db	3061	ggatgtctggagaggggaggaagagcagagagcctggagaacattgagccaacggggaggttgaggg	3120
OY	3121	ggacaggaagcagagcagagaagctvggtgtctccaatcgagttcctcaatgatacagctcaagctc	3180
Db	3121	ggacaggaagcagagcagagaagctvggtgtctccaatcgagttcctcaatgatacagctcaagctc	3180
OY	3181	cagggccgggagagcccaatgtcttcagggaaagctcgaattgaaccacaagccaatttctct	3240
Db	3181	cagggccgggagagcccaatgtcttcagggaaagctcgaattgaaccacaagccaatttctct	3240
OY	3241	tcccttaagagataagaaatgcatcttgccaaataacaaagaaatgtagagagacaaactgtgt	3300
Db	3241	tcccttaagagataagaaatgcatcttgccaaataacaaagaaatgtagagagacaaactgtgt	3300
OY	3301	ggctagctcttgccctvggcatccaataacatvggcccagagcaagtggaaatctgcagagattgt	3360
Db	3301	ggctagctcttgccctvggcatccaataacatvggcccagagcaagtggaaatctgcagagattgt	3360
OY	3361	ctaaactcttcaacccctgagacagacaccccagagctcagctgagctgcttgacaagacgg	3420
Db	3361	ctaaactcttcaacccctgagacagacaccccagagctcagctgagctgcttgacaagacgg	3420
OY	3421	agtgaaactgcagcagggagggaggaagaaagaaagagaggaataagtgataagaaagaaag	3480
Db	3421	agtgaaactgcagcagggagggaggaagaaagaaagagaggaataagtgataagaaagaaag	3480
OY	3481	acaagttcaattcaagagcagctvgggaatttgacaacagggatataagttcaacgtgtatccctvg	3540
Db	3481	acaagttcaattcaagagcagctvgggaatttgacaacagggatataagttcaacgtgtatccctvg	3540
OY	3541	gtctcgaagagcagagggctataatctggtggggggaataataatcaagttcaaggaaggtcgggaga	3600
Db	3541	gtctcgaagagcagagggctataatctggtggggggaataataatcaagttcaaggaaggtcgggaga	3600

QY	3601	cggattcttaabactatatttttcccttaagaagctgaatattctgagaagttcaag	366
Db	3601	cggattcttaabactatatttttcccttaagaagctgaatattctgagaagttcaag	366
QY	3661	gtatgaactgagagctgtgaagattacttagtttccctattagaagactctttctcgt	372
Db	3661	gtatgaactgagagctgtgaagattacttagtttccctattagaagactctttctcgt	372
QY	3721	ggaagttagcagcaagaaggcaattcccgcttcttctaacaggaagaaacattccaaag	378
Db	3721	ggaagttagcagcaagaaggcaattcccgcttcttctaacaggaagaaacattccaaag	378
QY	3781	taaaagccaacagatctcaagccttagctcttctgaacatbtgatgttttttggaaaat	384
Db	3781	taaaagccaacagatctcaagccttagctcttctgaacatbtgatgttttttggaaaat	384
QY	3841	catctcaagagagtttactatctgtattcagaagaaatggagactagtaaccttgttcagctg	390
Db	3841	catctcaagagagtttactatctgtattcagaagaaatggagactagtaaccttgttcagctg	390
QY	3901	taaaacaacacccagttgttaaatgtctcaagttcaggcttaactgacagaaaccaataaa	396
Db	3901	taaaacaacacccagttgttaaatgtctcaagttcaggcttaactgacagaaaccaataaa	396
QY	3961	agaatagaatctcttgagcaaacctgttcttctccaactctgagagtgagttcgcaggc	402
Db	3961	agaatagaatctcttgagcaaacctgttcttctccaactctgagagtgagttcgcaggc	402
QY	4021	agtttggaaatttcttactccaagattgacatgttgttggattaaacaataaagt	408
Db	4021	agtttggaaatttcttactccaagattgacatgttgttggattaaacaataaagt	408
QY	4081	tgtccaagaagcaatcatatttctcaagttgagcttaaaagttaactctgcagaatttggatat	414
Db	4081	tgtccaagaagcaatcatatttctcaagttgagcttaaaagttaactctgcagaatttggatat	414
QY	4141	ttaattggctatttgcacatttgcctttgttttcttctccttgggttaataatgtaagcag	420
Db	4141	ttaattggctatttgcacatttgcctttgttttcttctccttgggttaataatgtaagcag	420
QY	4201	ggattatttaacctgaagtcagaagagcgttgaaatttggaaatggagaaaattacaattt	426
Db	4201	ggattatttaacctgaagtcagaagagcgttgaaatttggaaatggagaaaattacaattt	426
QY	4261	tgtttttaaaccacttcaactcaaaattcaaatcttaattccattgagcaatagagccaata	432
Db	4261	tgtttttaaaccacttcaactcaaaattcaaatcttaattccattgagcaatagagccaata	432
QY	4321	ctccaagaatgtgtaataacagtaacctgtgatttgcattacaataagaaatcaacagacat	438
Db	4321	ctccaagaatgtgtaataacagtaacctgtgatttgcattacaataagaaatcaacagacat	438
QY	4381	ttatactatattacaagttgttgcagagaaagtgtgaatggaatatattatactccaacta	444
Db	4381	ttatactatattacaagttgttgcagagaaagtgtgaatggaatatattatactccaacta	444
QY	4441	ctttgaaattgagacctccctgcgtgagacctgtttttaaataatataaataacacgttttaa	450
Db	4441	ctttgaaattgagacctccctgcgtgagacctgtttttaaataatataaataacacgttttaa	450
QY	4501	attttgataatttgaataatcataattcatatataacttgcatttcccttgaataactaat	456
Db	4501	attttgataatttgaataatcataattcatatataacttgcatttcccttgaataactaat	456
QY	4561	ataataattgaaaacacattctctgaagaaagttccccaagattccaacaatgagttcttgg	462
Db	4561	ataataattgaaaacacattctctgaagaaagttccccaagattccaacaatgagttcttgg	462
QY	4621	catgcacaacacagagtaagaactctatattagaaggttaacatctgacattgtgtccctgga	468
Db	4621	catgcacaacacagagtaagaactctatattagaaggttaacatctgacattgtgtccctgga	468
QY	4681	tgcagaactgtaaattagaaggtctccccaagaataacagattgttttaagactagaggtt	474

Dd	4681	tgcagaagacggaattcagaagtctccccaagaatcacagtcgttttaaaagctaaagggtc	4740
Oy	4741	aggggggaaaatacttgcgcgtctctactaaagaatgctctccctcgtaaagccttgtagtgctgc	4800
Dd	4741	aggggggaaaatacttgcgcgtctctactaaagaatgctctccctcgtaaagccttgtagtgctgc	4800
Oy	4801	cctgtgtcttcgtgcgtgtctaatctttctctcgtctccctgctaagtccttaaaagacctgt	4860
Dd	4801	cctgtgtcttcgtgcgtgtctaatctttctctcgtctccctgctaagtccttaaaagacctgt	4860
Oy	4861	ggattcccaagttccctcgtacgtacgtccttgcacagtcgacgttcctccaatggttttgcagag	4920
Dd	4861	ggattcccaagttccctcgtacgtacgtccttgcacagtcgacgttcctccaatggttttgcagag	4920
Oy	4921	tgaatcggaataataaacctgaaatatacccttgttgaatacgaacacacgaatgccgtg	4980
Dd	4921	tgaatcggaataataaacctgaaatatacccttgttgaatacgaacacacgaatgccgtg	4980
Oy	4981	tgtacaagtgtgtgtaacgtctgt	5040
Dd	4981	tgtacaagtgtgtgtaacgtctgt	5040
Oy	5041	tgggaactatctcttgggggtatgggtgtcatataattgttgatgtctctttaaaaaaagaaatc	5100
Dd	5041	taggaactatctctgggtgatgggtgtcatataattgttgatgtctctttaaaaaaagaaatc	5100
Oy	5101	caaacaagaactctctgtaaaagcttatctcttaagaatctctgtcgtgcagcgtgaaggaacccc	5160
Dd	5101	caaacaagaactctctgtaaaagcttatctcttaagaatctctgtcgtgcagcgtgaaggaacccc	5160
Oy	5161	cctgtgtcacagcccccaacccagcctcgaagtgtgcacacctgtctctccccaatgaagggtc	5220
Dd	5161	cctgtgtcacagcccccaacccagcctcgaagtgtgcacacctgtctctccccaatgaagggtc	5220
Oy	5221	gtctcccaatataataaactctctcgtgaagctcgtggatgaagcagaagaag	5271
Dd	5221	gtctcccaatataataaactctctcgtgaagctcgtggatgaagcagaagaag	5271
RESULT 11			
AAV51364			
ID	AAV51364	standard; DNA; 5304 BP.	
XX	AAV51364;		
AC			
DT	27-OCT-1998	(first entry)	
XX			
DE	Human TIGR promoter mutant TIGRmt3 DNA.		
XX			
KX	TIGR: trabecular meshwork induced glucocorticoid response protein; human;		
KW	diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.		
RX			
OS	Homo sapiens.		
OS	Synthetic.		
XX			
FH	Key	Location/Qualifiers	
FT	mutation	4997..5002	
FT		/tag= a	
FT		/note= "Wild-type TG is replaced with TGTGTC"	
PN	WO9832850-A1.		
XX			
PD	30-JUL-1998.		
XX			
PF	09-JAN-1998:	98WO-US00468.	
XX			
PR	26-SEP-1997:	97US-0938669.	
PR	28-JAN-1997:	97US-0791154.	
XX			
PA	(RECC) UNIV CALIFORNIA.		
XX			
PI	Chen H, Chen P, Nguyen TD, Polansky JR:		

XX	WPI: 1998-427946/36.
DR	Use of TIGR nucleic acid sequences - used for, e.g., developing
XX	products for diagnosis, prognosis and treatment of glaucoma
PT	
XX	Disclosure: Fig 2; 105pp; English.
PS	
XX	This sequence is a trabecular meshwork induced glucocorticoid response
CC	protein (TRGR) promoter mutant, TRGRm3, which is used in a method for
CC	diagnosing glaucoma in a patient. The method involves the detection of
CC	polymorphisms whose presence is predictive of a mutation affecting TIGR
CC	response in the patient and can be diagnostic of glaucoma or steroid
CC	sensitivity. Base substitutions and base additions upstream of and within
CC	TIGR exons can also be used to diagnose glaucoma.
XX	
SQ	Sequence 5304 BP: 1482 A; 1152 C; 1237 G; 1433 T; 0 other:
	Query Match 85.3%; Score 5361.4; DB 19; Length 5304;
	Best Local Similarity 99.9%; Pred. NO. 0;
	Matches 5298; Conservative 0; Mismatches 1; Indels 6; Gaps 3;
OY	1 acccttggtcaattaccccaaggcgtatattgaaatgaatgatataaccatttggaaag 60
DG	1 attcttgttcacatttacccccaaggcctattatgaatatgaatgaataaccaatgtgaaag 60
OY	61 tccataaacgtctatagacctcccatctcgatgcgtatgtcctttggcacagtatagaatca 120
DG	61 tccataaacgtctatagacctcccatctcgatgcgtatgtcctttggcacagtatagaatca 120
OY	121 ggaagaaggagtagtcacaglttagccaagtgtgccaggctgtctctgtcttaatttagtga 180
DG	121 ggaagaaggagtagtcacaglttagccaagtgtgccaggctgtctctgtcttaatttagtga 180
OY	181 cagatgtctctctctgacaaaagcttatcttctcaggaaactccatccaatatggttaactc 240
DG	181 cagatgtctctctctgacaaaagcttatcttctcaggaaactccatccaatatggttaactc 240
OY	241 catcaaacggggcctaagaacaaggaaatgagatgggacattcccccaagaaaaatgcccag 300
DG	241 catcaaacggggcctaagaacaaggaaatgagatgggacattcccccaagaaaaatgcccag 300
OY	301 gagagagaataatgtagtaaaataaaactttcccttgtttttaattltaaggaaaaaatg 360
DG	301 gagagagaataatgtagtaaaataaaactttcccttgtttttaattltaaggaaaaaatg 360
OY	361 atygagaccataatcattgaataagaaaacagcttcagaaaaaagaatgtttccaaattg 420
DG	361 atygagaccataatcattgaataagaaaacagcttcagaaaaaagaatgtttccaaattg 420
OY	421 taattatagatattgttccctcttggaagaagaccctcccatgttagagcttgcggygaabvgggaa 480
DG	421 taattatagatattgttccctcttggaagaagaccctcccatgttagagcttgcggygaabvgggaa 480
OY	481 aaacgtcaaaagcatgatacttgatccagatcccaagaatggaattatattttaaanaaaccaagt 540
DG	481 aaacgtcaaaagcatgatacttgatccagatcccaagaatggaattatattttaaanaaaccaagt 540
OY	541 ggcatcaactctggggaggaagcttcagagaaggtcattgatacgaagaagacataacaataac 600
DG	541 ggcatcaactctggggaggaagcttcagagaaggtcattgatacgaagaagacataacaataac 600
OY	601 agaaaaataaaaaattccgcgaataatgcagggggaataaggggacttcggaaaaagctttcataac 660
DG	601 agaaaaataaaaaattccgcgaataatgcagggggaataaggggacttcggaaaaagctttcataac 660
OY	661 agtgaataggaatgtacacatgtctgcacaacacctcccgctctatacagaaggaaacaaaaa 720
DG	661 agtgaataggaatgtacacatgtctgcacaacacctcccgctctatacagaaggaaacaaaaa 720
OY	721 atgtgactggcttaaggctcgtgactttcaaaggaaatagaaaaactgagagcaaaaacaaa 780
DG	721 atgtgactggcttaaggctcgtgactttcaaaggaaatagaaaaactgagagcaaaaacaaa 780

Db 721 attgactgggctaagccttggaactttcaagggaaatatgaaaaactgagagcaaaacaaa 780
QY 781 gacatggttataaaggcaaccagaacatctgtagacctcaaaagcagctgcccctcagca 840
Db 781 gacatggttataaaggcaaccagaacatctgtagacctcaaaagcagctgcccctcagca 840
QY 841 gggacccttgagcattctgaccttaagaaagccagctttcttaaggaattcttaagaaatc 900
Db 841 gggacccttgagcattctgaccttaagaaagccagctttcttaaggaattcttaagaaatc 900
QY 901 ctgaagaatcatgaatttaaacatttaagataaaaaacaatctgcatgcaataatcag 960
Db 901 ctgaagaatcatgaatttaaacatttaagataaaaaacaatctgcatgcaataatcag 960
QY 961 cttaagaatctggtctcccaattttaaaagtcagacatacaaggaataacgtgtcccaagctcc 1020
Db 961 cttaagaatctggtctcccaattttaaaagtcagacatacaaggaataacgtgtcccaagctcc 1020
QY 1021 ggaataagtcagaataataatttagaataatacctgtgtccccaatcccaactttctcagaatgatac 1080
Db 1021 ggaataagtcagaataataatttagaataatacctgtgtccccaatcccaactttctcagaatgatac 1080
QY 1081 tgtcaatagccctcacaacacagagccgaatgtgtctgaaacttaaacacacatctacaacccaa 1140
Db 1081 tgtcaatagccctcacaacacagagccgaatgtgtctgaaacttaaacacacatctacaacccaa 1140
QY 1141 gtgtcctcaaaccatctgttaaacgtgtcaactcaataggtcccaataatgtccaccctccc 1200
Db 1141 gtgtcctcaaaccatctgttaaacgtgtcaactcaataggtcccaataatgtccaccctccc 1200
QY 1201 tgtgcaagcccatctccgctctccacaaggaagctcccccactctagaactctctgcatacaatglt 1260
Db 1201 tgtgcaagcccatctccgctctccacaaggaagctcccccactctagaactctctgcatacaatglt 1260
QY 1261 taacagcaagaagctcccgctgagggctgtgtgtctcaaacactacccgtatgctctac 1320
Db 1261 taacagcaagaagctcccgctgagggctgtgtgtctcaaacactacccgtatgctctac 1320
QY 1321 accctgagctcaactgcgaacctctgtacctcccaaggttcaagaatctctcgttctcaagctcc 1380
Db 1321 accctgagctcaactgcgaacctctgtacctcccaaggttcaagaatctctcgttctcaagctcc 1380
QY 1381 cgcgtagcctggagactcaagcgcaagcccggtcaattttctgtatgtctatgtatgagatgag 1440
Db 1381 cgcgtagcctggagactcaagcgcaagcccggtcaattttctgtatgtctatgtatgagatgag 1440
QY 1441 gtctcaaccaataatagcccgctgtgtctgtgaactccctgacctcaagtgatcacaaccacctc 1500
Db 1441 gtctcaaccaataatagcccgctgtgtctgtgaactccctgacctcaagtgatcacaaccacctc 1500
QY 1501 agccctccataaagtctctgaggaatacaaggaatacgcgcccgccaggaaggtcaggtgt 1560
Db 1501 agccctccataaagtctctgaggaatacaaggaatacgcgcccgccaggaaggtcaggtgt 1560
QY 1561 tcaataagaagaataacttgaaatggttatacaaaaacaaaggaagaaacaaagaaagctgtga 1620
Db 1561 tcaataagaagaataacttgaaatggttatacaaaaacaaaggaagaaacaaagaaagctgtga 1620
QY 1621 taattctcaggggaatctctgaggaatcgaggaatgagctgagctgagctctagctccagagc 1680
Db 1621 taattctcaggggaatctctgaggaatcgaggaatgagctgagctgagctctagctccagagc 1680
QY 1681 caatgtgctccatcaactctctccctccatcccatcttccaggtcaagttaacatttaatt 1740
Db 1681 caatgtgctccatcaactctctccctccatcccatcttccaggtcaagttaacatttaatt 1740
QY 1741 caaccatgctttgtgttagagcctccacatcgttactgnaataaaggtataacataactag 1800
Db 1741 caaccatgctttgtgttagagcctccacatcgttactgnaataaaggtataacataactag 1800
QY 1801 ttcacattctggagccaatcgtgtgtgttaataagggagaggaatacaccacagaagactctc 1860
Db 1801 ttcacattctggagccaatcgtgtgtgttaataagggagaggaatacaccacagaagactctc 1860

QY 1861 tgaagcccccgagaggttctctctccagctgggggagccctgcaagcaccgggtcc 1920
Db 1861 tgaagcccccgagaggttctctctccagctgggggagccctgcaagcaccgggtcc 1920
QY 1921 tgggtgtctctgagcaactctgcagccgtgcacgtgtgtctgtatcaactctcag 1980
Db 1921 tgggtgtctctgagcaactctgcagccgtgcacgtgtgtctgtatcaactctcag 1980
QY 1981 gacctgtgcttctctatcttctgtgtgactgtgtcatcttccatccagggatcatgtgaatact 2040
Db 1981 gacctgtgcttctctatcttctgtgtgactgtgtcatcttccatccagggatcatgtgaatact 2040
QY 2041 taattgactactatctgcagacacacagagacaaatgtgtgagcaagcagtcacatgc 2100
Db 2041 taattgactactatctgcagacacacagagacaaatgtgtgagcaagcagtcacatgc 2100
QY 2101 cctaactctgttgagaggtgacagtttctcaltggaagacgtgtcagaagaaaaataagcca 2160
Db 2101 cctaactctgttgagaggtgacagtttctcaltggaagacgtgtcagaagaaaaataagcca 2160
QY 2161 gccaacttaaacccagctgtcgaagaagaagaataaaacccatctgaaagaattgtgcgc 2220
Db 2161 gccaacttaaacccagctgtcgaagaagaagaataaaacccatctgaaagaattgtgcgc 2220
QY 2221 agcatcccttaacaagcgcaactccctccatgcgcccctgtcgtctccatctgtgcggagag 2280
Db 2221 agcatcccttaacaagcgcaactccctccatgcgcccctgtcgtctccatctgtgcggagag 2280
QY 2281 cccccaagcccgagctcttccaagctctccctccatcagtcacagcgtctgcagctgcct 2340
Db 2281 cccccaagcccgagctcttccaagctctccctccatcagtcacagcgtctgcagctgcct 2340
QY 2341 gctctgcttcccgctgaatgcttctgtgtgtcatctggaactctggaactctggtccagagct 2400
Db 2341 gctctgcttcccgctgaatgcttctgtgtgtgtcatctggaactctggaactctggtccagagct 2400
QY 2401 ccagaagaagaaatgagagaggaactagcttaacggaagaaactctgagagggagagctgttc 2460
Db 2401 ccagaagaagaaatgagagaggaactagcttaacggaagaaactctgagagggagagctgttc 2460
QY 2461 ctcaagagggaaaggggcccctccacgtctcaaggaatactccagaggtctgagagggagag 2520
Db 2461 ctcaagagggaaaggggcccctccacgtctcaaggaatactccagaggtctgagagggagag 2520
QY 2521 tgggagcgtctggagcgtgagcgggtgtctgaaaggcaaggaagtgaaaggcaagctgga 2580
Db 2521 tgggagcgtctggagcgtgagcgggtgtctgaaaggcaaggaagtgaaaggcaagctgga 2580
QY 2581 gctgtccagaatgtctcaggtgtgttcaacggggtctggaggttctcgtctcgtctgtagc 2640
Db 2581 gctgtccagaatgtctcaggtgtgttcaacggggtctggaggttctcgtctcgtctgtagc 2640
QY 2641 cttttatcttctctctgtctgttgagaggaagaagctatcttaatagaaggaatgcagtttc 2700
Db 2641 cttttatcttctctctgtctgttgagaggaagaagctatcttaatagaaggaatgcagtttc 2700
QY 2701 atcaagtcagcgtttaaaatcccaaggctgtgcatggtttctccatcaagaagccttat 2760
Db 2701 atcaagtcagcgtttaaaatcccaaggctgtgcatggtttctccatcaagaagccttat 2760
QY 2761 ttaatgaggaataaaggaagcgaactcaattctcctlaggcgtttaaatacggaaagagtgac 2820
Db 2761 ttaatgaggaataaaggaagcgaactcaattctcctlaggcgtttaaatacggaaagagtgac 2820
QY 2821 tggagttctttcttcttccatgctctctgggcaataactcaagccctgtgtgtgactgtgcta 2880
Db 2821 tggagttctttcttcttccatgctctctgggcaataactcaagccctgtgtgtgactgtgcta 2880
QY 2881 tgcagaagcgttcgaaaaccttggaatcaggaagacccgtttctctctcgtctcgtccatc 2940
Db 2881 tgcagaagcgttcgaaaaccttggaatcaggaagacccgtttctctctcgtctcgtccatc 2940

[illegible]

Accession	Sequence	Position
Db	aaactccaaacagactctcgtgaaggtatcttcttaagaattcttgcgcagcgttgaaggca	5159
Oy	accgccctcgtgcacagcccccacagcctcaagtgcacacctctgtcttcccccattgaag	5215
Db	accgccctcgtgcacagcccccacagcctcaagtgcacacctctgtcttcccccattgaag	5219
Oy	ggctcgtcctcccaatataataaacctctctcgtgaagctcgggcattgagccagccaagccac	5275
Db	ggctcgtcctcccaatataataaacctctctcgtgaagctcgggcattgagccagccaagccac	5279
Oy	ccattccagcagcctctcagcagcaaac	5300
Db	ccattccagcagcctctcagcagcaaac	5304

RESULT	12
AAA57485	
ID	AAA57485 standard; DNA; 5304 BP.

AC	AAA57485;
XX	
DT	20-OCT-2000 (first entry)

AA	A	TIGR (trabecular meshwork inducible glucocorticoid receptor) promoter
DE		
XX		
KM	TIGR; trabecular meshwork inducible glucocorticoid receptor; promoter;	
KM	glaucoma; steroid sensitivity; progressive ocular hypertension;	
KM	vision loss; ss.	

OS Homo sapiens

Key	Location/Qualifiers
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	
61	
62	
63	
64	
65	
66	
67	
68	
69	
70	
71	
72	
73	
74	
75	
76	
77	
78	
79	
80	
81	
82	
83	
84	
85	
86	
87	
88	
89	
90	
91	
92	
93	
94	
95	
96	
97	
98	
99	
100	

FT	/tag= a
FT	/note= "TIGRmtl mutant"
FT	replace (4950, T)
mutation	

FT	/tag= b
FT	/note= "TIGRmt2 mutant"
FT	4998
mutation	

```

FT      C      /*tag=
FT      /note= "GTGT added to produce TIGRmt3 mutant"
FT      replace (4256, G)
FT      /tag= d

```

```

FT      /  cag      "TIGRmt4 mutant"
FT      /note= replace (5117, C)
FT      /*tag= p

```

	/note= "TIGRmt11 mutant
Z	
FT	
XX	
PN	

WO200042220-A1.

XX
PD
XX
20-JUL-2000.

PF	11-JAN-2000; 2000WO-US005559.
XX	
PR	11-JAN-1999; 99US-0227881.

PR 07-MAY-1999; 9905-0306828.
XX
PA (REGC) UNIV CALIFORNIA.

AA Nguyen TD, Polansky JR, Chen P, Chen
PI
XX
NP WPT. 2000-491060/43.

Diagnosis, prognosis and treatment of specific polymorphisms in the promoter

PT Inducible glucocorticoid receptor gene
XX 79; Fig 2A-E; 122pp; English.

sent sequence represents a sequence variant of the TIR-
lar mesothelium inducible glucocorticoid receptor) promoter.
fication describes a method for the diagnosis, prognosis
ment of glaucoma, based on detecting specific polymorphisms

CC In the promoter of the TIGR gene. The method is used for diagnosis
CC and prognosis of glaucoma (of all types), steroid sensitivity
CC and progressive ocular hypertension that leads to loss of vision.
CC Glaucoma can be treated by administering an agent that binds to
CC cis-acting elements within the TIGR promoter. The TIGR promoter (or
CC other regulatory regions) can be used to express homologous or
CC heterologous genes, particularly for tissue-specific expression of
CC therapeutic transgenes for treating glaucoma, also to generate
CC transgenic animals and in screening for compounds (specific modulators)
CC with diagnostic or therapeutic potential. Fragments of the TIGR
CC sequence can be used as amplification primers or probes, e.g. for
CC isolating related sequences in non-human animals.

Sequence 5304 BP; 1481 A; 1150 C; 1239 G; 1434 T; 0 other;

Query Match	85.28;	Score 5253.4;	DB 21;	Length 5304;
Best Local Similarity	99.88;	Pred. No. 0;		
Matches 5293;	Conservative	0;	Mismatches 6;	Indels 6;
				Gaps 3.

Qy 1 atcttgcgtcagttaccctcaggcgatatagaaatgaatatgaacaacaaatgctgaag 60
|||||
|||

61 tccataaactgtatagcctccatctcgatgtatgtctcttgcagagatgataagaatca 12

121 ggaagaaagcagataccacgattagccaaqtlbccaagcctgtgtcctcctattttagltga 18

Db 121 ggaagaagagatcatccagtcagcaagtcgtctctctatttttagtga 18

QY	181 cagatgtctgcctccgacagaagtattcttcaggaaacatcacatccaatactgtgtaaac
Db	181 cagatgttctgccctcagacagaagtattcttcaggaaacatcacatccaatactgtgtaaac

241 catcaacagagctaaagaaacaggaatgagatgagcactctgcccaagaaatgcacag 30
|||||

301 gagagcaataatgatgataaaataaactttcccttggttttaatttcaggaaaaatg 3

Db 301 gagagcaataatgatgaaaaataacitcttcctctgttttcaattccaggaaaaaatg 3

Db 361 atgagaccacaattcaatgataaaggaaacagctcagaaaaaagatgttcccaattgg 4

Oy	421 taattaagatttcttccttggaagaacctcaatgtagctgtttggaaaaatgggaa 4
.	
Db	421 taattaagatttcttccttggaagaacctcaatgtagctgtttggaaaaatgggaa 4

481 aaacgtcaaaagcatgactgtatcagatcccaaaagtgtatatattttaaaaccagat 5

[illegible]

601 agcaaaatcaaaattccgcgaatgcagagagaaaaatgggagctgggaaagctttcataac 6

Db 601 agcaaaatcaaaatccgcgaatgcagaggaatgaggactggaagaagcttccataac 6

Qy 661 agtgattagcagcttgacacatgtctcgcaacacccctcccgctctatcacagggaacacaana
 |||||||
 Db 661 agtgattagcagcttgacacatgtctcgcaacacccctcccgctctatcacagggaacacaana 7

721 attgactggtcgaagcctgacttcaaggaataatgaataaactggagcaaaaacaaaa 7
|||||

D_b 721 atctgactggcgctaagcccttgadcltltcaatgggaatacagaaacaccgcgttcgtgcacaattcacaaa-

QY 781 gacatcgtttaaaagccaacccaagaacaattgttagccttcaaaggcagcaagtgcccttcagca 8

QY	3001	ataaagacccctctgcagctctcgtgtctctgtgaacactccctctgtatctctctgtgaaggg	3060
Db	3001	ataaagacccctctgcagctctcgtgtctctgtgaacactccctctgtatctctctgtgaaggg	3060
QY	3061	gga tctctgaagaagggaagagggaagagcctctgagacgtctgagccagggggagaggttgaggg	3120
Db	3061	gga tctctgagagagggaagagggaagagcctctgagacgtctgagacgtgagccagggggagaggttgaggg	3120
QY	3121	ggagcaggaagggcagggcagaaagctgggg tgcctccac tcaag tccctcactga tcaagctcagaatc	3180
Db	3121	ggagcaggaagggcagggcagaaagctgggg tgcctccac tcaag tccctcactga tcaagctcagaatc	3180
QY	3181	cagagaccggagagcccaacatgctctcagagaaagctcacaatgaaaccacaagccacattctct	3240
Db	3181	cagagaccggagagcccaacatgctctcagagaaagctcacaatgaaaccacaagccacattctctct	3240
QY	3241	tccctcaagcctagaacaaatgagcatcttgcacaataacaaaagaaatgacagagactaactggt	3300
Db	3241	tccctcaagcctagaacaaatgagcatcttgcacaataacaaaagaaatgacagagactaactggt	3300
QY	3301	ggtagcctcttgcccttgagcatctcaaaaacctgggcccagagcagaatgagaaatgcccagagatg	3360
Db	3301	ggtagcctcttgcccttgagcatctcaaaaacctgggcccagagcagaatgagaaatgcccagagatg	3360
QY	3361	ctaaactcttaccctgcagccagcagcccccagcagctcagacagctgacatctgtcagaaagccgg	3420
Db	3361	ctaaactcttaccctgcagccagcagcccccagcagctcagacagctgacatctgtcagaaagccgg	3420
QY	3421	agtagacctgcagggcagggaggagagagaaagagagagagatagtgtaagagaaagaaag	3480
Db	3421	agtagacctgcagggcagggaggagagagaaagagagagagatagtgtaagagaaagaaag	3480
QY	3481	acagatctcatcacaagggcagctgggaaatctgacacaagggatctatagctccacgtgatactctgg	3540
Db	3481	acagatctcatcacaagggcagctgggaaatctgacacaagggatctatagctccacgtgatactctgg	3540
QY	3541	gtctctcagggggcagggcgtatctctgvggggggaaaaaaccagttcaaggggaagctggggaga	3600
Db	3541	gtctctcagggggcagggcgtatctctgvggggggaaaaaaccagttcaaggggaagctggggaga	3600
QY	3601	cctgcgattctctaaactaactatcttctcccttaacagcgtgagtaattcttcgaaacagctcaag	3660
Db	3601	cctgcgattctctaaactaactatcttctcccttaacagcgtgagtaattcttcgaaacagctcaag	3660
QY	3661	gttagtaacctgaagggctgtaagagcttaacttaagctctccctctctcaggaactcttctctcgt	3720
Db	3661	gttagtaacctgaagggctgtaagagcttaacttaagctctccctctctcaggaactcttctctcgt	3720
QY	3721	ggagctctagcagcacaagggcacaatcccgttctctttaa caggaagaaacatctcctaaag	3780
Db	3721	ggagctctagcagcacaagggcacaatcccgttctctttaa caggaagaaacatctcctaaag	3780
QY	3781	taaaagccaaacacgattctcaagccttaagctctctgcgtacatataagattggtttcttgaaaaat	3840
Db	3781	taaaagccaaacacgattctcaagccttaagctctctgcgtacatataagattggtttcttgaaaaat	3840
QY	3841	caattccagcgagatgcttaactactctgcattcgaataaagagactgataccctcttggtaagctg	3900
Db	3841	caattccagcgagatgcttaactactctgcattcgaataaagagactgataccctcttggtaagctg	3900
QY	3901	taaaacaacacacccagctgtgaaatgctctcaaggtctcaagctttaactctgagaaaccacaatcaaat	3960
Db	3901	taaaacaacacacccagctgtgaaatgctctcaaggtctcaagctttaactctgagaaaccacaatcaaat	3960
QY	3960	aagaaatagaatctttaagagcaaaactgtgtctctcacaatctggaggtgagttcgtccaggg	4019
Db	3961	aagaaatagaatctttaagagcaaaactgtgtctctcacaac tctggaggtgagttcgtccaggg	4019
QY	4020	cagatttgaaataatcttactctcaaggtatctgaacatgtgttctgtgatactaaacaataaag	4079
Db	4020	cagatttgaaataatcttactctcaaggtatctgaacatgtgttctgtgatactaaacaataaag	4079

[illegible]

```
|||||
Db 5160 acccccctgacacagccaccacccactacgtgacactctgtcttcccccaatgaag 5219
Oy 5216 ggcctgctcccccagatataataacctctgagctcggcagatagaccagaagccac 5275
Db 5220 ggcctgctcccccagatataataacctctgagctcggcagatagaccagaagccac 5279
Oy 5276 ccattccaggaactctctcagacagc 5300
Db 5280 ccattccaggaactctctcagacagc 5304

RESULT 13
AA237968
ID AA237968 standard: DNA: 2800 BP.
XX
AC AA237968:
XX
DT 07-FEB-2000 (first entry)
XX
DE Human GLCIA gene exon 1 and flanking sequences.
XX
KW GLAUCOMA: PCR amplification; primary open wide angle glaucoma;
KM GLCIA gene; exon; human; ss.
XX
OS Homo sapiens.
XX
PN WO951779-A2.
XX
PD 14-OCT-1999.
XX
PF 07-APR-1999: 99MO-US07671.
PR 07-APR-1998: 98US-0056285.
XX
PA (IOWA ) UNIV IOWA RES FOUND.
XX
PI Stone EM, Sheffield VC, Alward WM, Fingert J;
XX
WI: 2000-022956/02.
XX
PT Determination of a predisposition to glaucoma by analysing mutations in
PR the GLCIA gene.
XX
PS Disclosure: Fig 1A: 137pp: English.
XX
CC The invention relates to a method for the determination of a
CC predisposition to glaucoma. The method comprises amplifying a GLCIA gene
CC with a primer pair selected from the sequences shown in AA237981-238008.
CC The primers are used to determine whether a subject has or has the
CC potential to develop primary open wide angle glaucoma. The present
CC sequence represents the human GLCIA gene exon 1 and flanking sequences.
XX
SO Sequence 2800 BP: 781 A; 588 C; 673 G; 758 T; 0 other;

Query Match 43.4% Score 2677.4; DB 21: Length 2800;
Best Local Similarity 99.7% Pred. No. 0;
Matches 2736; Conservative 0; Mismatches 1; Indels 8; Gaps 5;

Oy 3431 agcgcaaggaggaagaagaagaagaagtagtgaatagcaagaagaacagattcat 3490
Db 1 agcgcaaggaggaagaagaag-aaagaagaaggatagtgatagcaagaagaacagattcat 59
Oy 3491 tcaaggagcagtcgggaattgcacacaggaattatagtcacagtgatcctcggtctagag 3550
Db 60 tcaaggagcagtcgggaattgcacacaggaattatagtcacagtgatcctcggtctagag 119
Oy 3551 gcagggatatactgctggggggaataaaatcagttcaagggaagtcgggaagactgtattct 3610
Db 120 gcagggatatactgctggggggaataaaatcagttcaagggaagtcgggaagactgtattct 179
Oy 3611 aatactatatttctcttcaagcgtgataattctgagcaagtcacaaaggtagtaactg 3670
```

```
|||||
Db 180 aatactatatttctcttcaagcgtgataattctgagcaagtcacaaaggtagtaactg 239
Oy 3671 agcgctgaagatlaactagattctccttacttaagaaactcttctctctggaagttagca 3730
Db 240 agcgctgaagatlaactagattctccttacttaagaaactcttctctctggaagttagca 299
Oy 3731 gcacaaggcgaatccggttctctttaaagaagaagaataatctcttaagagtaaaagccaaa 3790
Db 300 gcacaaggcgaatccggttctctttaaagaagaagaataatctcttaagagtaaaagccaaa 359
Oy 3791 cagattcaagccttagctgctgactatagattggtttcttgaataaataatctcagcg 3850
Db 360 cagattcaagccttagctgctgactatagattggtttcttgaataaataatctcagcg 419
Oy 3851 atgttactatctgattcagaanaaalgagactagacccttgcagctgtaaacaaaa 479
Db 420 atgttactatctgattcagaanaaalgagactagacccttgcagctgtaaacaaaa 479
Oy 3911 cccagttgtaaatgtcttcaaggtcaggttaactgcagaaacaaatcaa-aagaatgaa 3969
Db 480 cccattgttaaatgtcttcaaggtcaggttaactgcagaaacaaatcaaataagaatgaa 539
Oy 3970 tctttagagcaaacgtgtctcctccacatctgagagtgagctgcagggcaggttgaa 4029
Db 540 tctttagagcaaacgtgtctcctccac-tctgagagtgagctgcagggcaggttgaa 598
Oy 4030 atattacttcaagaactgacacgtgtgtggtatlaacaataaagltgtcctaag 4089
Db 599 atattacttcaagaactgacacgtgtgtggtatlaacaataaagltgtcctaag 658
Oy 4090 gcaatcatatttcaagtggtctaaagttaactctgcaggttctggtatattcttgct 4149
Db 659 gcaatcatatttcaagtggtctaaagttactcttcgcaggttctggtatattcttgct 718
Oy 4150 atggcattgctcttcttctctctctctctctctctctctctctctctctctctctctctct 4209
Db 719 atggcattgctcttcttctctctctctctctctctctctctctctctctctctctctctct 778
Oy 4210 acctacagccagaagacgtgtgaattgaaalgagaanaaaatcatatttctgtttac 4269
Db 779 acctacagccagaagacgtgtgaattgaaalgagaanaaaatcatatttctgtttac 838
Oy 4270 cacttcttaactaaatttaacatttattccattgagatagagccatlaactcaagtg 4329
Db 839 cacttcttaactaaatttaacatttattccattgagatagagccatlaactcaagtg 898
Oy 4330 gtaatacagagcctgtgatttgcattaccaaatagaatacacagacatttctatct 4389
Db 899 gtaatacagagcctgtgatttgcattaccaaatagaatacacagacatttctatct 958
Oy 4390 attacagttgttcagataagctgtgaagtgaataattatatacctcaaaactcttgaat 4449
Db 959 attacagttgttcagataagctgtgaagtgaataattatatacctcaaaactcttgaat 1018
Oy 4450 tagacccttcgtgactgtttttaaataataataaaacagttttaaatttgata 4509
Db 1019 tagacccttcgtgactgtttttaaataataataaaacagttttaaatttgata 1078
Oy 4510 ttttgaataatcatattcattatcatctgtctcttgaataatatttataatttg 4569
Db 1079 ttttgaataatcatattcattatcatctgtctcttgaataatatttataatttg 1138
Oy 4570 aaaaactcttcagagaaggttcccagatttcaaccaatgaggttcttgcagtcacac 4629
Db 1139 aaaaactcttcagagaaggttcccagatttcaaccaatgaggttcttgcagtcacac 1198
Oy 4630 acacagagtaagaactgatttagaggtcctaataatgacaattgtgctcgagatgcaagact 4689
Db 1199 acacagagtaagaactgatttagaggtcctaataatgacaattgtgctcgagatgcaagact 1258
Oy 4690 gaaattgaaggtcctcccaagaatacaacagtttctaaagccaggtgtaagggggaa 4749
```

[illegible]

QY	5830	atctggccaaggaagctcttgaaagacgaacgacccaggaagctaaacaagctctgagaagggccgc	5883
Db	2339	atctggccaaggaagctctgaaagacgaacgacccaggaagctaaacaagctctgagaagggccgc	2458
QY	5890	gtccccaagaccgaagacatctgctcgtctgctcgaacaaagctcccaagagaaagttaagaaatg	5949
Db	2459	gtccccaagaccgaagacatctgctcgtctgctcgaacaaagctcccaagagaaagttaagaaatg	2518
QY	5950	cagaagctgggggaactctgaaatctgaagaagtgaaatgctgcgaagagaaactctcaagacg	6009
Db	2519	cagaagctgggggaactctgaaatctgaagaagtgaaatgctgcgaagagaaactctcaagacg	2578
QY	6010	ctccagaagctctctcctgacattctcctbaagaaatgacacagctatgacacaagaacaatg	6065
Db	2579	ctccagaagctctcctgacattctcctbaagaaatgacacagctatgacacaagaacaatg	2638
QY	6066	aattaaagaaagaca--cgaatcaactctcaagatattacatgaaatcttaactctgaagct	6124
Db	2639	aattaaagaaagacaagcgaatcaactctcaagatattacatgaaatcttaactctcctgaagact	2698
QY	6125	tcaattagataatgcttgcagagctctctctgcccctcaatgctcag	6169
Db	2699	tcaattagataatgcttgcagagctctctctgcccctcaatgctcag	2743

ID	AAV37618	standard; DNM; 3493 BP.
XX	AAV37618;	
XX	14-SEP-1998	(first entry)
XX	Human glaucoma associated GLCIA genomic sequence.	
XX	GLIAComa; GLCIA; treatment; mutant; juvenile open angle glaucoma;	
XX	JOAG; ss.	
XX	Hom sapiens.	
XX	Key	Location/Qualifiers
XX	5'UTR	1..180
XX	CDS	/*tag= a 181..3022 /*tag= b /product= "GLCIA protein" /note= "contains introns" 181..784 /*tag= c /number= 1 785..1426 /*tag= d /number= 1 1427..1552 /*tag= e /number= 2 1553..2237 /*tag= f /number= 2 2238..3019 /*tag= g /number= 3 3020..3493 /*tag= h
XX	3'UTR	
XX	WO9820131-A1.	
XX	14-MAY-1998.	
XX	07-NOV-1997;	97MO-US20702.
XX	21-MAR-1997;	97US-0822999.

PR	08-NOV-1996:	96US-0748479.
PR	30-JAN-1997:	97US-0791347.
XX		
XX		
PA	(IOWA) UNTIV IOWA RES FOUND.	
XX		
PI	Alward MLM, Sheffield V, Stone EM;	
XX		
XX	WPI; 1998-286947/25.	
DR		
DR	P-PsDB; AAM60670.	
XX		
PT	New Isolated gene associated with glaucoma - used to develop	
PT	products to determine whether a subject has, or is at risk of,	
PT	developing glaucoma, and for treating or preventing glaucoma	
PS	Claim 1; Figs 1A-B; 116pp: English.	
XX		
XX		
CC	This represents the genomic sequence of the human GLC1A gene which is	
CC	associated with juvenile open angle glaucoma (JOAG). The gene can be used	
CC	for the development of assays for identifying molecules that modulate	
CC	(agonists or antagonists) the bioactivity of a functional or mutant gene	
CC	or protein. Modulators may be an antibody, protein, peptide or	
CC	peptidomimetic or a nucleic acid, e.g. antisense sequence, ribozyme or	
CC	triple helix forming nucleic acid. These molecules can be administered to	
CC	a subject with glaucoma or at risk for developing glaucoma to prevent or	
CC	reduce the severity of the condition. Derivatives of GLC1A gene can be	
CC	used to detect lesions of the GLC1A gene which are indicative of glaucoma	
CC	or predisposition to glaucoma.	
XX		
XX		
SO	Sequence 3493 BP; 929 A; 840 C; 840 G; 871 T; 13 other;	

Query Match	15.8%	Score 975.2	DB 19	Length 3493
Best Local Similarity	98.4%	Prod. NO. 2.9e-216		
Matches 1002	Conservative 0	Mismatches 11	Indels 5	Gaps 2
QY 5157	ccccctctgtgacacagcccccacccacccacagccctctcacagtgtgacacactctgtctctcccccagaaagg			5216
Db 1	cccccttctgtcacacagcccccacccacccacagccctcangtggccacttctgtctctcccccagaaagg			60
QY 5217	gtctgtctccccaagatataataaacctctctgtgagctgtggcattggccagacagaccac			5276
Db 61	gtctgtctccccaagatataataaaccttctgtgagctgtggcattggccagacagaccac			120
QY 5277	catccacagccacccctctcacagccacacagagagcctctccacagagaaagccctccacacagccctctgca			5336
Db 121	catccacagccacccctctcacagccacacagagagcctctccacagagaaagcctccacacagccctctgca			180
QY 5337	atggaggtctctctctgtgacacgtctgtccgcagcctcttggccttgagattgccagctgtccagctgtg			5396
Db 181	atggaggtctctctctgtgacacgtctgtccgcagcctcttggccttgagattgccagctgtg			240
QY 5397	ctgtctctctgtccctctgacatctgtgtggaattctgggggacagacacgtccacgtccagggaaagcc			5456
Db 241	ctgtctctctgtccctctgacatctgtgtggaattctgggggacagacacgtccacgtccagggaaagcc			300
QY 5457	aatgacacagagctgtgcacgaatgcacgaatacctctcaagtgtgtgcacgtcccaatgaattccagc			5516
Db 301	aatgacacagagctgtgcacgaatgcacgaatacctctcaagtgtgtgcacgtcccaatgaattccagc			360
QY 5517	tgcacacagacagagacagacagacacatgtccagatcaatccataacttccacagagagacagacac			5576
Db 361	tgcacacagacagagacagacagacacatgtccagatcaatccataacttccacagagagacagacac			420
QY 5577	caaacgctctagaacctgtgagagccacacaaagctccgactccagctccctctgtgagagacctctctccac			5636
Db 421	caaacgctctagaacctgtgagagccacacaaagctccgactccagctccctctgtgagagacctctctccac			480
QY 5637	caattgtgaacctctgtgacacacagctctgacacagcccccacagagagacccacagagagagctctgacagagagag			5696
Db 481	caattgtgaacctctgtgacacacagctctgacacagcccccacagagagacccacagagagagctctgacagagagag			540
QY 5697	ctgggacacccctgaagctggagagcggagacagctgtgaaacccaaacacagagaagcttggagact			5756
Db 540	ctgggacacccctgaagctggagagcggagacagctgtgaaacccaaacacagagaagcttggagact			540

D	b		541	ctggccaccttgagtcggtgagtcggtgcacagtctggaataccaacaacagatgattgtagact	600
Q	y	5757	gctcacagcaaacctcctcccgagacaagtcatgtctctgaggagaagaaagcgnactaaagg	5816	
D	b	601	gcttacagcaaacctcctcccgagacaagtcatgtctctgaggagaagaaagcgnactaaagg	660	
Q	y	5817	caaaaaaatgagaatcttgcgccaaagaagttctgaaaagcagcagcccagaggtatgcaaagctg	5876	
D	b	661	caaaaaaatgagaatcttgcgccaaagaagttctgaaaagcagcagcccagaggtatgcaaagctg	720	
Q	y	5877	aagaaggggccagctgtccccaccgaccgagacaactgcgtccggtctgtccacaagctccaga	5936	
D	b	721	agaaggggccagctgtccccaccgaccgagacaactgcgtccggtctgtccacaagctccaga	780	
Q	y	5937	gaagtgtaagaatgagaagctgagggggaactctgaatttcagaagaagtgatatgctcgtatgta	5996	
D	b	781	gaagtgtaagaatgagaagctgagggggaactctgaatttcagaagaagtgatatgctcgtatgta	840	
Q	y	5997	cctgtctcaaggcgtctcagaagctc---cctgcctcttctctctaagagactgcacaagctag	6052	
D	b	841	cctgtctcaaggcgtctcagaagctc---cctgcctcttctctctaagagactgcacaagctag	900	
Q	y	6053	cacaagaagcagtgatgattaagaagaagacaca--cgtatcactcttaagaatgactagtaattta	6111	
D	b	901	cacaagaagcagtgatgattaagaagaagacaca--cgtatcactcttaagaatgactagtaattta	960	
Q	y	6112	gctccttagagagctcatcttagattagtggtctcagaagttctctgtgccctccatgtctcag	6169	
D	b	961	gctccttagagagctcatcttagattagtggtctcagaagttctctgtgccctccatgtctcag	1018	
 RESULT 15 AAV51391 ID AAV51391 standard; cDNA; 1548 bp.					
A	C		AAV51391;		
X	X				
X	X		27- OCT -1998 (first entry)		
X	X				
X	X		Human TIGR cDNA.		
X	X				
K	M		TIGR: trabecular meshwork induced glucocorticoid response protein: human		
R	M		diagnosis: glaucoma: polymorphism; steroid sensitivity: ss.		
O	S		Homo sapiens.		
X	X				
F	H		Key Location/Qualifiers		
E	T		CDS 37..1548		
F	T		/*tag= a		
F	T		/product= TIGR		
X	X				
P	N		MO9832850-A1.		
X	X				
P	D		30-JUL-1998.		
X	X				
P	F		09-JAN-1998; 98MO-US00468.		
X	X				
P	R		26-SEP-1997; 97US-0938669.		
X	X		28-JAN-1997; 97US-0791154.		
P	A		(REGC) UNIV CALIFORNIA.		
X	X				
P	I		Chen H, Chen P, Nguyen TD, Polansky JR;		
X	X				
D	R		WPI: 1998-427946/36.		
D	R		P-PSDB: AAM64669.		
X	X				
P	T		Use of TIGR nucleic acid sequences - used for, e.g. developing		
X	X		products for diagnosis, prognosis and treatment of glaucoma		
S	S		Claim 48; Fig 7; 105pp: English.		
X	X				
C	C		This cDNA sequence encodes a novel human trabecular meshwork induced		

CC glucocorticoid response protein (TIGR) which is used in a method for
CC diagnosing glaucoma in a patient. The method involves the detection of
CC polymorphisms whose presence is predictive of a mutation affecting TIGR
CC response in the patient and can be diagnostic of glaucoma or steroid
CC sensitivity. Base substitutions and base additions upstream of and within
CC TIGR exons can also be used to diagnose glaucoma.
XX

SO Sequence 1548 BP; 402 A; 418 C; 431 G; 297 T; 0 other;

Query Match

Best Local Similarity 10.4%; Score 640.4; DB 19; Length 1548;

Mismatches 641; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5301 agagcttccagaggaagcctcaccaagcctctgcaatgaggtctctctgtgacgttcg 5360
DB 1 agagcttccagaggaagcctcaccaagcctctgcaatgaggtctctctgtgacgttcg 60
QY 5361 tggagcttgggcttgatgagcagctgttccactgtctgtctgtgctgtgtgtg 5420
DB 61 tggagcttgggcttgatgagcagctgttccactgtctgtctgtgctgtgtgtg 120
QY 5421 gatgtggggccagagcagcttcagctcagaagaagccaatgaccaggtgtgcccag 5480
DB 121 gatgtggggccagagcagcttcagctcagaagaagccaatgaccaggtgtgcccag 180
QY 5481 tatacctcaagtgtggtccagctcccaatgaatccagctgtcccagagagagccagcatg 5540
DB 181 tatacctcaagtgtggtccagctcccaatgaatccagctgtcccagagagagccagcatg 240
QY 5541 tcagatccataacttacaagagagacagacacccaagccttagacctgtagggccacc 5600
DB 241 tcagatccataacttacaagagagacagacacccaagccttagacctgtagggccacc 300
QY 5601 aagagctcgaactcagctccctggagagagcctctccacaaatgaccttggaccagctgcc 5660
DB 301 aagagctcgaactcagctccctggagagagcctctccacaaatgaccttggaccagctgcc 360
QY 5661 agggcccaagagacccaagagagggctgtcagaagagagctgggacccctgagcgagagcgg 5720
DB 361 agggcccaagagacccaagagagggctgtcagaagagagctgggacccctgagcgagagcgg 420
QY 5721 gagcagctggaaacccaacagagaggttgagagctgcttacaagcaacctctcccgagac 5780
DB 421 gagcagctggaaacccaacagagaggttgagagctgcttacaagcaacctctcccgagac 480
QY 5781 aagtcagttctggagaggaagagaagcgactaagcgacaagaaatgagatctgtgcagg 5840
DB 481 aagtcagttctggagaggaagagaagcgactaagcgacaagaaatgagatctgtgcagg 540
QY 5841 aggtctggaaagcagcagcagcagagtgatgaaggtctgagaaggggccagtgtccccagacc 5900
DB 541 aggtctggaaagcagcagcagcagagtgatgaaggtctgagaaggggccagtgtccccagacc 600
QY 5901 cgagacactgctcgggctgtgcccacagagcttcagagaaggt 5942
DB 601 cgagacactgctcgggctgtgcccacagagcttcagagaaggt 642

Search completed: November 8, 2001, 13:08:21
Job time: 9061 sec